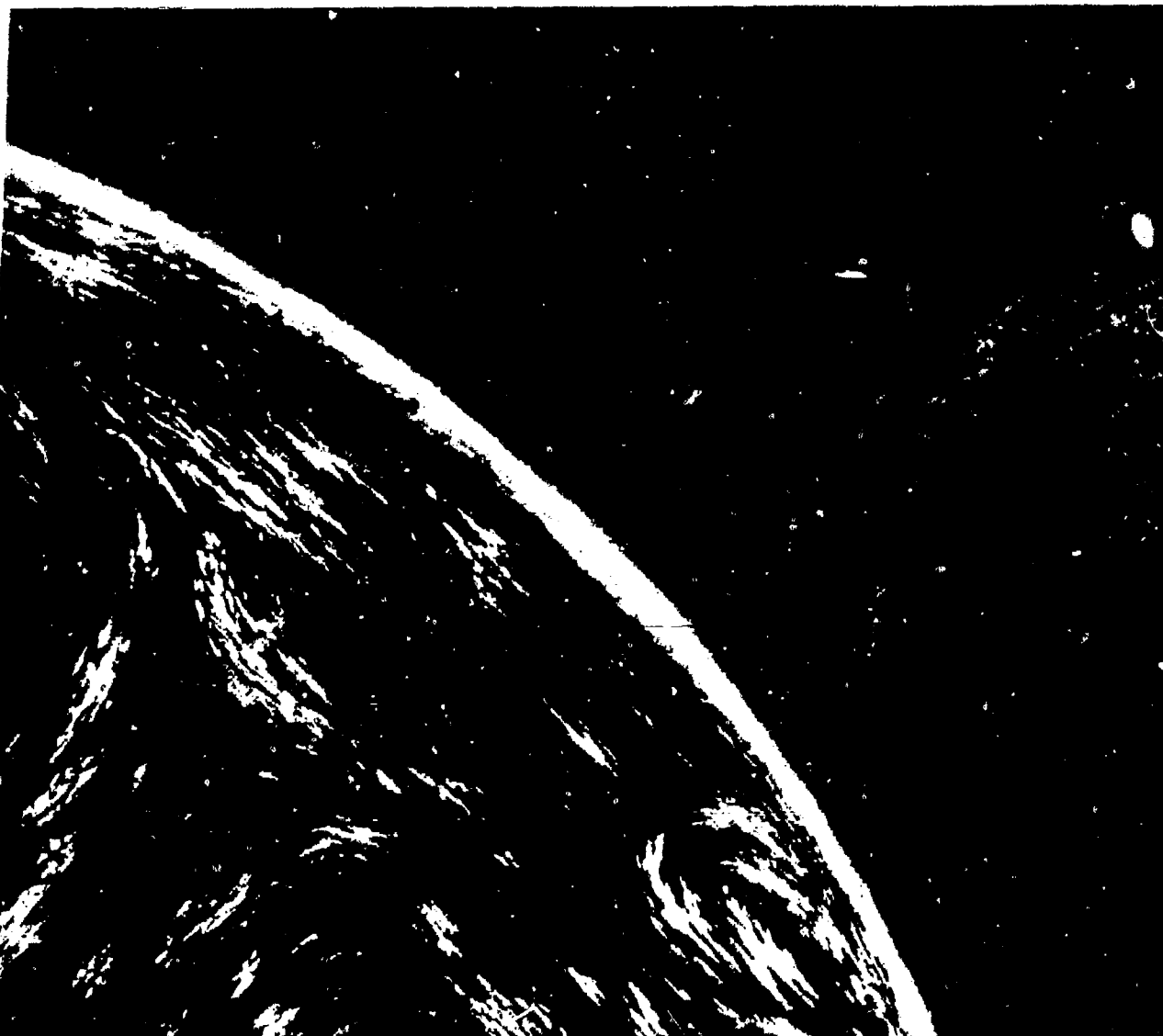


U. S. STANDARD ATMOSPHERE, 1962

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OCT 27 1967

- ICAO STANDARD ATMOSPHERE
TO 20 KM
- PROPOSED EXTENSION TO 32 KM
- TABLES AND DATA TO 700 KM

U.S. STANDARD ATMOSPHERE, 1962

To Harry Wexler

Dr. Harry Wexler, cochairman of the United States Committee on Extension to the Standard Atmosphere and Director of Meteorological Research for the United States Weather Bureau, died on August 11, 1962. Over a period of nearly fifteen years Dr. Wexler led the development and formulation of the United States Standard Atmosphere. This work is respectfully dedicated to him.

U.S. STANDARD ATMOSPHERE, 1962

ICAO STANDARD ATMOSPHERE TO 20 KILOMETERS
PROPOSED ICAO EXTENSION TO 32 KILOMETERS
TABLES AND DATA TO 700 KILOMETERS

Prepared under sponsorship of
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
UNITED STATES AIR FORCE
UNITED STATES WEATHER BUREAU

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December 1962
Washington, D.C.

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Abstract

The U.S. Standard Atmosphere, 1962 is a product of COESA generated under the impetus of increased knowledge of the higher atmosphere and more accurate determinations of basic quantities, such as redefinition of the absolute thermodynamic temperature scale. For all practical purposes the U.S. Standard Atmosphere, 1962 is in agreement with the ICAO Standard over their common altitude range. Background information, including a brief historical statement, is given in the Foreword. The document is arranged in three parts. Part I gives the basis for the main tables of atmospheric properties and contains a full development of gravity and geopotential as well as the basic assumptions, formulas, and derived quantities. In Part II additional information relating to the atmosphere is given, including discussion of systematic variations, observed and inferred extremes, and representations of atmospheric variables as approximate analytic functions of altitude. Part III contains the main tables of atmospheric properties to 700 kilometers calculated in both metric and English units. Throughout the document figures and short tables are introduced to aid in visualizing the variation with altitude of atmospheric parameters and to provide conversions between various units.

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List of Symbols and Abbreviations

a	radius of the earth at the equator
a_p	geomagnetic index
BTU	British thermal unit
b	subscript indicating base or reference level; also semiminor axis, or polar radius
$^{\circ}\text{C}$	degrees, in thermodynamic Celsius scale
C_i	international magnetic character figure
C_s	speed of sound
cal	calorie
cm	centimeter
$^{\circ}\text{F}$	degrees, in thermodynamic Fahrenheit scale
F_{10}	decimetric solar flux
f	ellipsoid flattening
ft	foot
G	Newton's universal gravitational constant
g	acceleration due to gravity
g	gravity force, per unit mass
gm	gram
H	geopotential altitude
H_p	pressure scale height
H_ρ	density scale height
h	$H - H_\rho$
i	subscript indicating ice-point value
in.	inch
i.n. mi	international nautical mile
J	second zonal harmonic coefficient
$^{\circ}\text{K}$	degrees, in thermodynamic Kelvin scale
K_3	3-hour range index
k	thermal conductivity
kg	kilogram (mass)
kg-cal	kilogram-calorie
kgf	kilogram (force)
kg-mol	kilogram-mole
km	kilometer
kw-hr	kilowatt hour
L	mean free path
L_M	molecular-scale temperature geometric gradient, $\frac{dT_M}{dZ}$
L'_M	molecular-scale temperature geopotential gradient, $\frac{dT_M}{dH}$
lb	pound (mass)
lb-mol	pound-mole (mass)
lbf	pound (force)
M	mean molecular weight of air
\bar{M}	mass of the earth
m	meter
mb	millibar
mks	meter-kilogram-second system of units
mm	millimeter
N	Avogadro's number

n	number density; also exponent
O	subscript indicating sea-level value
P	pressure
pdl	poundal
$^{\circ}R$	degrees, in thermodynamic Rankine scale
R	position vector
R°	universal gas constant
r	radial distance
S	Sutherland's constant
sec	second
T	temperature in absolute thermodynamic scales
T_D	maximum daytime temperature
T_i	ice-point temperature in absolute thermodynamic scales
T_M	molecular-scale temperature in absolute thermodynamic scales
T_N	minimum nighttime temperature
t	temperature in nonabsolute thermodynamic scales; also, day of year
t_i	ice-point temperature in nonabsolute thermodynamic scales
u	universal measure of magnetic activity
\bar{V}	particle speed (arithmetic average)
v	mole volume of air under existing conditions of T and P
Z	altitude in geometric measure
β	constant used in Sutherland's viscosity equation
γ	ratio of specific heats
η	kinematic viscosity
θ	longitude
μ	coefficient of viscosity
ν	collision frequency
ρ	mass density
σ	effective collision diameter of a mean air molecule
Φ	geopotential
Φ_C	centrifugal potential
Φ_G	potential energy of the gravitational attraction
ϕ	geographic latitude
ψ	geocentric latitude
ψ'	angular distance from center of diurnal bulge
Ω	angular velocity of the earth
ω	specific weight

Foreword

On March 15, 1962, a revised U.S. Standard Atmosphere to 700 km was adopted by the United States Committee on Extension to the Standard Atmosphere (COESA), representing 29 U.S. scientific and engineering organizations. This committee has also recommended the lower 32 km of this representation of the atmosphere to the International Civil Aviation Organization (ICAO) for international standardization. The lowest 20 km of this new COESA atmosphere coincides with the 20 km *Manual of the ICAO Standard Atmosphere*, 1954, except for minor differences due to revised standardization of some physical constants.

This report revises and replaces COESA's first report, *U.S. Extension to the ICAO Standard Atmosphere—Tables and Data to 300 Standard Geopotential Kilometers*, 1958 (ref. 1).

The U.S. Air Force, the National Aeronautics and Space Administration, and the U.S. Weather Bureau cosponsored the movement which led to this new representation of the atmosphere. Participating organizations included:

Aeronautical Systems Division, AFSC
Air Force Deputy Commander Aerospace Systems, AFSC
Air Weather Service, USAF
Applied Physics Laboratory, The Johns Hopkins University
Army Ballistic Missile Agency
Army Signal Research and Development Laboratory
Ballistic Research Laboratories (Aberdeen Proving Ground)
Battelle Memorial Institute
The Boeing Company
Federal Aviation Agency
General Dynamics/Astronautics
Geophysics Corporation of America
Geophysics Research Directorate, AFCLRL
Goddard Space Flight Center, NASA
Harvard College and Smithsonian Institution Astrophysical Observatories
High Altitude Engineering Laboratory, University of Michigan
Jet Propulsion Laboratory, California Institute of Technology
Langley Research Center, NASA
Lockheed Missiles and Space Company
George C. Marshall Space Flight Center, NASA
NASA Headquarters
National Bureau of Standards, Department of Commerce
Naval Proving Grounds
Naval Research Laboratory
Navy Weather Research Facility
The Rand Corporation
Space Technology Laboratories, Inc.
United States Weather Bureau, Department of Commerce
White Sands Missile Range

COESA is a group of scientific and engineering organizations, each holding national responsibilities related to the requirement for accurate tables of the atmosphere to high altitudes. After they joined forces to develop such an atmosphere in November 1953, several new organizations were added to the ranks. A working group, appointed at the first meeting, met frequently between 1953 and the end of 1956. Their recommendations, which were accepted by the entire committee, were published in 1958 (ref. 1).

Scientific progress quickly rendered this 1958 document obsolete, since orbital periods of the first Sputnik indicated that densities at the upper altitudes were in error by more than an order

of magnitude. The Working Group was reestablished in January 1960 to review all available satellite and rocket data as related to the COESA tables and to consider the need for revision. For the next year, the Working Group studied new data and theories from more refined satellite flights. The information obtained from the early USSR satellites was insufficient for the purpose because the USSR aerodynamic configurations were not made known and the data covered only the lower altitude range of satellite orbits. A few years of observations at satellite altitudes were also required to understand the effects of solar activity and position. The United States satellites provided the necessary extreme-altitude data. Additional rocket flights provided needed detail for levels above those of balloon flights. The COESA Working Group prepared a recommendation from this new scientific inventory which was accepted by the entire committee. Active Working Group participants included:

*Dr. Luigi Jacchia, Smithsonian Institution Astrophysical Observatory, Chairman

Mr. Norman Sissenwine, AFCRL, Executive Secretary

Mr. Herbert Appleman, Air Weather Service

Dr. H. J. aufm Kampe, USA Signal Corps, R & D Laboratory

†Dr. K. S. W. Champion, AFCRL

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Mr. Walter C. Conover, USA Signal Corps, R & D Laboratory

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Lt. Col. J. C. Glover, Air Weather Service

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Dr. D. P. Johnson, National Bureau of Standards

Dr. F. S. Johnson, Lockheed Missile Systems Division

Mr. Leslie M. Jones, University of Michigan

Dr. H. K. Kallmann-Bijl, The Rand Corporation

Dr. W. W. Kellogg, The Rand Corporation

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Dr. Harry Wexler, U.S. Weather Bureau

This revised *U.S. Standard Atmosphere, 1962* depicts idealized middle-latitude year-round mean conditions for the range of solar activity that occurs between sunspot minimum and sunspot maximum. Part I gives the basis for the tables appearing in Part III. Supplemental presentations provided in Part II indicate the variability of density above 200 km with solar position and activity. For lower altitudes they indicate the range of seasonal and day-to-day variability that can be deduced from the available data.

Although density is the primary atmospheric property measured at or deduced for very high altitudes, it is necessary to define the atmosphere in terms of temperature, in order to achieve continuity between the ICAO atmosphere and its extension. The application of molecular-scale temperature segments at higher altitudes yields densities which are consistent with observed densities. Table I.4(a) is the basic framework for the tables of the *U.S. Standard Atmosphere, 1962*.

The new *U.S. Standard Atmosphere, 1962* agrees in general with but differs in detail from the Committee on Space Research (COSPAR) International Reference Atmosphere, CIRA 1961. CIRA 1961 is not in agreement with the ICAO Standard Atmosphere. The *U.S. Standard Atmosphere, 1962* provides detail and more parameters than CIRA 1961, and includes refinements in matching the data that were not possible in the earlier COSPAR atmosphere.

*Contributor to Part II.

†Editor.

Close contact between COSPAR and COESA has reduced discrepancies between the two atmospheres to a minimum.

On the basis of information provided by the COESA Working Group, this document was prepared by personnel of the NASA Langley Research Center, notably: Dr. John E. Duberg, Mr. William J. O'Sullivan, Jr., Mr. Richard A. Hord, Dr. S. L. Scaton, and Mr. James A. Mullins, who wrote and revised the manuscript; Miss Vera Huckel and Miss Jean Mason, who did the checking and curve-fitting; and Mr. Roger Butler and Miss Lillian Boney, who wrote the machine programs for computation of the tables.

The cochairmen would like to take this opportunity to thank the many Working Group scientists and engineers who contributed unselfishly of their time and energies to bring this new representation of the atmosphere into being. Our special thanks and that of all organizations of the committee go to the individuals who prepared and edited this report.

MAURICE DUBIN, NASA
NORMAN SISENwine, USAF
HARRY WEXLER, USWB

Cochairmen, U.S. Committee on Extension to the Standard Atmosphere

PART I

Basis of the Tables

PART I

Basis of the Tables

1.0 INTRODUCTION

Part I gives the basis for computation of the main tables of atmospheric properties that appear in Part III. Also included in Part I are short tables of physical constants, conversion factors, and defining properties used in the computations.

1.1 BACKGROUND

The modern standard atmosphere was first developed in the 1920's in the United States and in Europe to satisfy a need for standardization of aircraft instruments and aircraft performance. The United States standard atmosphere was generated by the National Advisory Committee for Aeronautics (NACA) while the European standard atmosphere was produced by the International Commission for Aerial Navigation (ICAN). There were slight differences between the independently developed ICAN and NACA atmospheres. These differences were reconciled and international uniformity was achieved through adoption by the International Civil Aviation Organization (ICAO), on November 7, 1952, of a new standard atmosphere. This new standard was officially accepted by NACA on November 20, 1952, and forms the basis for tables published in NACA Report 1235 (ref. 2). The computations for these tables were carried out by the United States. Parts of the tables were independently computed by the Italian government. Conversions from metric to English units were made in accordance with internationally adopted conversion factors. The tables extended over an altitude range from 5 km below to 20 km above mean sea level.

Shortly after this first international standard atmosphere was published, a need began to be apparent for extension of the tables to greater altitudes. The U.S. Committee on Extension to the Standard Atmosphere (COESA) was organized in 1953, and adopted in 1956 the *U.S. Extension to the ICAO Standard Atmosphere* (ref. 1) including tables, developed from theory, extending to an altitude of 300 geopotential kilometers.

At about this same time, reliable instrumentation of rockets and satellites made possible experimental determinations of important atmospheric properties to altitudes of the order of 1,000 kilometers. This

new information so added to the fund of knowledge that in January 1961 a new Working Group of COESA was convened for the purpose of developing a new standard atmosphere.

In order to obtain the best scope and in order to achieve the purpose in minimum time, task groups were formed to lay the foundation for this standard atmosphere. Membership of these task groups was as follows:

Task Group I—Surface to 90 km

Arnold Court (Convener)
K. S. W. Champion
Luigi Jacchia
Raymond A. Minzner
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Task Group IV—90 km to 700 km

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Raymond A. Minzner

The purpose, then, of this *U.S. Standard Atmosphere, 1962* is to take account of increased knowledge and more accurate determinations of basic quantities, including the redefinition of the absolute thermodynamic temperature scale by the Tenth General Conference on Weights and Measures in 1954. For all practical purposes, the *U.S. Standard Atmosphere, 1962* is in agreement with the ICAO Standard Atmosphere over their common altitude range.

The *U.S. Standard Atmosphere, 1962* is divided into four altitude regions. The first, from -5 to $+20$ km (geopotential altitude), is designated *standard*. A second region, from 20 to 32 km (geopotential altitude), is designated *proposed standard*. Next, the region from 32 km (geopotential altitude) to 90 km (geometric altitude) is called *tentative*, and last, that portion from 90 to 700 km (geometric altitude) is termed *speculative*.

Expressions for the variation with altitude of the acceleration due to gravity have been reexamined by COESA and are discussed in section 1.2.4.

In extending the U.S. Standard Atmosphere to 700 km, and in light of the designations attached to various height intervals (implying increasing uncertainty with increasing height), there is included a discussion of variability and extremes of data in order to give those using this standard an appreciation of such excursions from the standard as may be met in practice. Fundamentally, the *U.S. Standard Atmosphere, 1962* is defined in terms of an ideal air assumed to be devoid of moisture, water vapor, and dust, and obeying the perfect gas law. It is based upon accepted standard values of the sea-level air density, temperature, and pressure.

For most purposes, the adoption of a sequence of connected linear segments involving variations of molecular-scale temperature with altitude to represent standard conditions is satisfactory and is retained here. However, there is added, for those needing a smoothed change of molecular-scale temperature with altitude, a section dealing with approximate analytic expressions for the molecular-scale temperature and other variables.

The bulk of this volume is devoted to tabulated values of atmospheric properties. It is especially to be noted that up to 90 km entry is made to the tables in terms of *geopotential altitude on the left-hand pages*, while on *right-hand pages* entry is made in terms of *geometric altitude*. Above 90 km entry is made in geometric altitude only.

Metric tables appear first, followed by similar tables in English units. It is also to be noted that at the 90 -km level, tabular entry of certain quantities is terminated for technical reasons discussed in the text. In the following paragraphs basic concepts and formulas are developed first, followed by relationships between variables and then by derived quantities. Graphs illustrative of the functions appear in the body of the text near the equations in order to facilitate visualization of the behavior of the quantities. Units and conversion factors are arranged in convenient tables.

1.2 BASIC ASSUMPTIONS AND FORMULAS

1.2.1 PRIMARY CONSTANTS.—For purposes of computation it is necessary to establish numerical values for various constants appropriate to the

earth's atmosphere. In some instances the best value of the constant is known to greater accuracy than needed in atmospheric tables, and thus, rounding to a suitable value is appropriate. Table 1.2.1 gives numerical values adopted as exact for the computations contained herein.

Discussion of these tabular values is as follows:

- | | |
|---------------|---|
| P_0 | Sea-level pressure is, by definition, 1.013250×10^5 newtons m^{-2} . This corresponds to the pressure exerted by a column of mercury 0.760 m high, having a density of 1.35951×10^4 kg m^{-3} and subject to an acceleration due to gravity of 9.80665 m sec^{-2} . |
| ρ_0, t_0 | Sea-level density and temperature, respectively, are those values published in the ICAO Standard Atmosphere. |
| g_0 | The value for g_0 , sea-level acceleration due to gravity, was adopted by the ICAO for the ICAO Standard Atmosphere and is adopted here as the value at exactly 45° geographic latitude. |
| S, β | Sutherland's constant S and β , also a constant, are used in Sutherland's viscosity equation. These constants are determined from empirical data on the viscosity of air (ref. 3) in accordance with Sutherland's equation, and in general engineering practice the values shown in table 1.2.1 are used. |
| T_i | Temperature of the ice point is 273.15° K. This value results from the decision in October 1954 by the Tenth General Conference on Weights and Measures, meeting in Paris, France, to redefine the temperature scale by selecting the triple point of water as the fundamental, fixed point and assigning to the temperature 273.16° K (0.01° C). |
| γ | The ratio of the specific heat of air at constant pressure to the specific heat of air at constant volume is adopted as 1.40 (dimensionless). |
| σ | The mean collision diameter for air is assumed to be a constant for all altitudes (ref. 4). |
| N | Avogadro's number based on the scale $C^{12}=12.0000$. (The International Union of Pure and Applied Chemistry, meeting in Montreal in 1961, adopted a new table of atomic weights based on the assignment of atomic weight 12.0000 to the C^{12} isotope.) |
| R^* | The value of R^* adopted here is that given in reference 5 when the latter is corrected for the aforementioned change in the atomic-weight scale. |

BASIS OF THE TABLES

5

TABLE 1.2.1.—ADOPTED PRIMARY CONSTANTS

Symbol	Metric units (mks)	English units (ft-lb-sec)
P_0	1.013250×10^5 newtons m^{-2}	2116.22 lbf ft^{-2}
ρ_0	1.2250 kg m^{-3}	0.076474 lb ft^{-3}
t_0	15° C	59.0° F
g_0	9.80665 m sec^{-2}	32.1741 ft sec^{-2}
S	110.4° K	198.72° R
T_0	273.15° K	491.67° R
β	1.458×10^{-4} kg $sec^{-1} m^{-1} (^{\circ}K)^{-1/2}$	7.3075×10^{-5} lb $ft^{-1} sec^{-1} (^{\circ}R)^{-1/2}$
γ	1.40 (dimensionless)	1.40 (dimensionless)
σ	3.65×10^{-19} m	1.1975×10^{-18} ft
N	6.02257×10^{23} (kg-mol) $^{-1}$	2.73170×10^{24} (lb-mol) $^{-1}$
R^*	8.31432 joules ($^{\circ}K$) $^{-1}$ mol $^{-1}$	1545.31 ft lb (lb-mol) $^{-1}$ ($^{\circ}R$) $^{-1}$

Conversion factors between the English and mks systems, in accordance with an agreement reached by the directors of the standards laboratories of six English-speaking nations, effective July 1, 1959, are (from ref. 6):

$$1 \text{ ft} = 0.3048 \text{ meter (exact)}$$

$$1 \text{ lb} = 0.45359237 \text{ kg (exact)}$$

1.2.2 THE PERFECT GAS LAW.—The equation of state of a perfect gas (the perfect gas law) and the hydrostatic equation (see section 1.2.3) are convenient starting points in the development of the expressions and relationships necessary to realization of tables of values descriptive of the earth's atmosphere.

The equation of state of a perfect gas is (from ref. 7):

$$P = \frac{M P}{R^* T} \quad 1.2.2-(1)$$

wherein P is the atmospheric pressure, ρ is the air density, R^* is the universal gas constant, and T is the absolute temperature. It is to be noted that M , the mean molecular weight of air, is assumed to be constant up to an altitude of 90 km, while above this altitude M varies because of increasing dissociation and diffusive separation.

1.2.3 THE HYDROSTATIC EQUATION.—In adopting the hydrostatic equation it is assumed that the atmosphere is static with respect to the earth. The equation in appropriate form is:

$$dP = -\rho g dZ \quad 1.2.3-(1)$$

The acceleration due to gravity g and the geometric altitude Z are discussed in detail in later sections of the document.

1.2.4 GRAVITY.—Viewed in the ordinary manner, from a frame of reference fixed in the earth, the atmosphere is subject to the force of gravity. The force of gravity is the resultant (vector sum) of two forces: (a) the gravitational attraction, in accordance with Newton's universal law of gravitation, and (b)

the centrifugal force, which results from the choice of an earthbound, rotating frame of reference.

The gravity field, being a conservative force field, can conveniently be derived from the gravity potential energy, per unit mass—that is, from the geopotential Φ . This is given by

$$\Phi = \Phi_G + \Phi_C \quad 1.2.4-(1)$$

where Φ_G is the potential energy, per unit mass, of the gravitational attraction, and Φ_C is the potential energy, per unit mass, associated with the centrifugal force. The gravity force, per unit mass, is

$$g = -\nabla\Phi \quad 1.2.4-(2)$$

where $\nabla\Phi$ is the gradient (ascendant) of the geopotential. The acceleration due to gravity is denoted by g and is defined as the magnitude of g ; that is,

$$g = |g| = |\nabla\Phi| \quad 1.2.4-(3)$$

The gravity field is conveniently represented by its equipotential (level) surfaces, on each of which the geopotential Φ is constant, the surfaces being pierced orthogonally by curves called the lines of gravity force. At each point on a line of force, the tangent has the direction of the corresponding gravity force vector g .

In this document the geometric altitude Z of a point is defined as the distance, measured along the line of force through the point, from the equipotential surface for which $\Phi = 0$ to the point in question, the surface for which $\Phi = 0$ corresponding closely to mean sea level. (The slight differences between geometric altitude as defined here and several straight-line distances, shown schematically in fig. 1.2.4(a), are negligible, for most practical purposes, in the altitude range considered herein.) With this definition, the differential relation of the geometric altitude Z and the geopotential Φ is

$$d\Phi = g dZ \quad 1.2.4-(4)$$

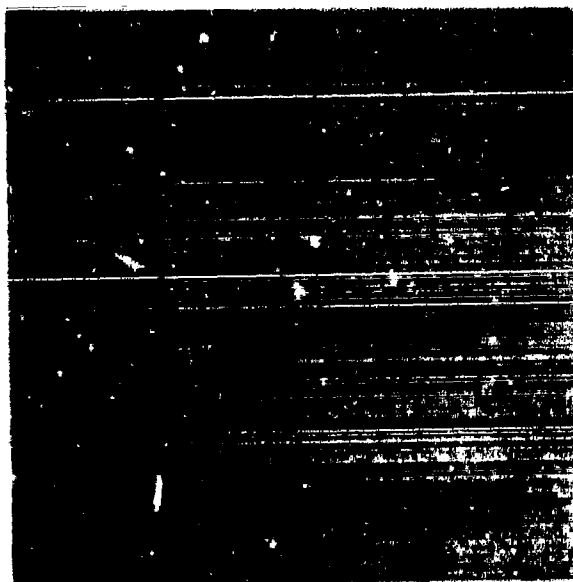


FIGURE 1.2.4(a).—Relationships between various heights.

which is the incremental work done in lifting a unit mass a distance dZ against the gravity force. Therefore, the geopotential at a point whose altitude is Z is given by

$$\Phi = \int_0^Z g \, dZ \quad 1.2.4-(5)$$

where the integration is performed along the line of force which passes through the point. (The general equation for the difference between the geopotential at points A and B is:

$$\Phi_B - \Phi_A = \int_A^B \mathbf{g} \cdot d\mathbf{R} \quad 1.2.4-(6)$$

where the line integral on the right-hand side is independent of the path and \mathbf{R} is the position vector of a point on the path.)

The centrifugal potential Φ_c can be expressed as

$$\Phi_c = \frac{1}{2} \Omega^2 [a^2 - (r \cos \psi)^2] \quad 1.2.4-(7)$$

where Ω is the angular velocity of the earth and $r \cos \psi$ is the distance, measured perpendicularly to the earth's axis, from this axis to the point (r, θ, ψ) . The spherical coordinates r , θ , and ψ are, respectively, the radial distance from the earth's center, the longitude, and the geocentric latitude (the angle that the radius vector makes with the equatorial plane of the earth). In equation 1.2.4-(7), the constant a denotes the equatorial radius of the earth.

The gravitational potential Φ_g can be expanded in an infinite series of spherical harmonics. When the less important terms in this series are discarded, the expression for Φ_g becomes

$$\Phi_g = -\frac{GM}{r} \left[1 - \frac{J}{3} \left(\frac{a}{r} \right)^2 (3 \sin^2 \psi - 1) \right] + \frac{GM}{a} \left(1 + \frac{J}{3} \right) \quad 1.2.4-(8)$$

where G is Newton's universal gravitational constant, M is the mass of the earth, and J is the second harmonic coefficient.

Equations 1.2.4-(1), -(2), -(3), -(7), and -(8) define the gravity field of the earth for the purposes of this document. The adopted geopotential Φ is independent of the longitude θ . Therefore, the defined gravity field is axially symmetric. Moreover, each line of force lies entirely in a meridian half-plane, $\theta = \text{Constant}$, and has the differential equation

$$r \frac{d\psi}{dr} = \frac{\frac{1}{r} \frac{\partial \Phi}{\partial \psi}}{\frac{\partial \Phi}{\partial r}} \quad 1.2.4-(9)$$

The gravity line of force passing through the point for which $\Phi=0$ and $g=g_0$ is the curve along which the present standard atmosphere is postulated. It is possible to select the value of the constant GM (see eq. 1.2.4-(8)) well within the present limits of measurement and in such a way that the point for which $\Phi=0$ and $g=g_0$ corresponds precisely to the geographic latitude $\phi=45^\circ$ (geocentric latitude $\psi=44.808^\circ$); this has been done with the use of selected average values for J and a (see ref. 8):

$$J = 1.623495 \times 10^{-3} \text{ (dimensionless)} \quad 1.2.4-(10)$$

$$a = 6,378,178 \text{ meters} \quad 1.2.4-(11)$$

The corresponding value of GM is

$$GM = 3.9862216 \times 10^{16} \text{ meters}^2 \text{ sec}^{-2} \quad 1.2.4-(12)$$

For the accuracy required in this document, it suffices to treat the surface $\Phi=0$ as an ellipsoid whose flattening (ellipticity) is

$$f = 1 - \frac{b}{a} = \frac{1}{298.32} \quad 1.2.4-(13)$$

where b is the semiminor axis, or polar radius. It should be noted that this value of the flattening is the average value given in reference 8. In terms of a and b , the values r_0 and ψ_0 which correspond to sea level and $\phi=45^\circ$ are found from the analytic geometry of the ellipse to be:

$$r_0^2 = \frac{a^4 + b^4}{a^2 + b^2} \quad 1.2.4-(14)$$

$$\tan \psi_0 = \frac{b^2}{a^2} \quad 1.2.4-(15)$$

Approximations, sufficiently accurate for the computations required herein, are developed in the following paragraphs for the equations of the line of gravity force and the acceleration due to gravity (see ref. 9).

Since the geopotential as approximated here is independent of the longitude angle θ , the binomial series can be used to write the following expanded form of equation I.2.4-(3):

$$g = |\nabla\Phi| = \sqrt{\left(\frac{\partial\Phi}{\partial r}\right)^2 + \left(\frac{1}{r} \frac{\partial\Phi}{\partial\psi}\right)^2} \\ = \frac{\partial\Phi}{\partial r} \left[1 + \frac{1}{2} \left(\frac{1}{r} \frac{\partial\Phi/\partial\psi}{\partial\Phi/\partial r} \right)^2 + \dots \right] \quad \text{I.2.4-(16)}$$

It is sufficiently accurate to retain only the first two terms in the series in brackets and replace $(\partial\Phi/\partial r)^2$ in the denominator of the second term by $(GM/a^3)^2$. The resulting approximate form for equation I.2.4-(16) is

$$g = \left\{ \frac{GM}{r^2} \left[1 - J \left(\frac{a}{r} \right)^2 (3 \sin^2 \psi - 1) \right] - r \Omega^2 \cos^2 \psi \right\} \left[1 + \frac{1}{2} \frac{1}{r^2} \left(\frac{a^3}{GM} \right)^2 \left(\frac{2GMJ a^2}{r^2} + \Omega^2 a^2 \right) (\sin \psi \cos \psi)^2 \right] \quad \text{I.2.4-(17)}$$

Simultaneous numerical integrations of equation I.2.4-(9) and the equation

$$dZ = \sqrt{(dr)^2 + (r d\psi)^2} \quad \text{I.2.4-(18)}$$

have revealed that the following linear approximations are adequate for present purposes:

$$\psi = \psi_0 + \left(\frac{d\psi}{dr} \right)_0 (r - r_0) \quad \text{I.2.4-(19)}$$

$$r = r_0 + \frac{Z}{\left(\frac{dZ}{dr} \right)_0} = r_0 + \frac{Z}{\sqrt{1 + r_0^2 (d\psi/dr)_0^2}} \quad \text{I.2.4-(20)}$$

With the use of equations I.2.4-(19) and I.2.4-(20) to replace r and ψ by linear functions of Z , equation I.2.4-(17) yields an approximate equation for the acceleration due to gravity as a function of the geometric altitude (shown graphically in fig. I.2.4(b)).

I.2.5 GEOPOTENTIAL.—In accordance with the equation I.2.4-(5) relating the geometric altitude Z to the geopotential Φ , the following equation is used to define the geopotential altitude H :

$$H = \frac{1}{g_0} \Phi = \int_0^Z \frac{g}{g_0} dZ \quad \text{I.2.5-(1)}$$

Here, g_0 denotes the standard sea-level value of the acceleration due to gravity. As in the case of equa-

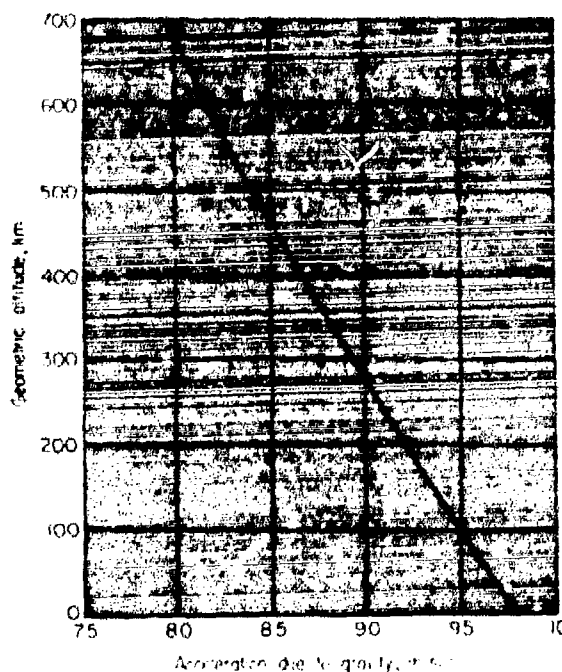


FIGURE I.2.4(b).—Acceleration due to gravity g as a function of geometric altitude Z .

tion I.2.4-(5), the integration in equation I.2.5-(1) is performed along the line of force which passes through the point in question. (The geopotential altitude as defined in eq. I.2.5-(1) has the dimensions of length and is numerically equal to the corresponding geopotential altitude measured in "geopotential length" units (for example, "standard geopotential meter," symbol m' , where $1 m' = 9.80665 m \text{ sec}^{-2}$). The quantity H is physically equivalent to Φ , which is the work done in elevating unit mass from sea level to (geometric) altitude Z . The definition of H given above is not the conventional meteorological one in which g_0 in eq. I.2.5-(1) would be taken as dimensionless and H would have the dimensions of (Length)² (Time)⁻², that is, "geopotential length." The definition adopted here avoids the confusing feature of dividing the geopotential Φ by a dimensionless number whose value changes when the system of units is changed. For meteorological usage, the column labels H , m and H' , ft in the tables of Part III can be read H' , m' and H' , ft' , respectively, where the primed units refer to standard geopotential meters and feet, respectively, and H' is the geopotential altitude in the meteorological sense. For further discussion of geopotential altitude, see ref. 10.)

It is important to realize that the distance measured in physical length (as with a meter bar) between successive geopotential surfaces 1 geopotential unit apart is not constant, but increases in physical distance with increasing elevation.

The meaning of geometric altitude Z and of geopotential altitude H can be seen by reference to figure I.2.4(a). If an elementary plumb line is used to explore gravity and if this plumb line is rotating with the earth, then, starting at point O and proceeding outward, the little plumb line will mark out line segments which progress along the curved path OP . Under the influence of gravitational and centrifugal forces this line OP will bend polewards as it rises except along the axis of rotation of the earth and along an equatorial radius extended. In figure I.2.4(a), the arc length ds measured along the line of gravity force from P to P' is identical with the increment dZ in geometric altitude as defined in section I.2.4. That is, the geometric altitude Z is the physical distance along the line OP . Since

$$dH = \frac{g}{g_0} dZ \quad \text{I.2.5-(2)}$$

then, clearly, the geopotential altitude is measured also along the line OP but differs in numerical value because of the variation of the acceleration due to gravity.

It is to be noted that the scale in figure I.2.4(a) is exaggerated in order to show the nature of the curvature of the middle-latitude plumb line (line of force) and to show clearly the relationship between tangent line, radius line, and projections.

I.2.6 MOLECULAR-SCALE TEMPERATURE.—The molecular-scale temperature T_M is defined by

$$T_M = \frac{M_0}{M} T \quad \text{I.2.6-(1)}$$

Molecular-scale temperature is the defining property in this atmosphere and, up to geometric altitude $Z=90$ km, the molecular-weight ratio $M/M_0=1$ and hence $T_M=T$. Above 90 km, M/M_0 is less than unity and hence T_M is greater than T . (See figs. I.2.6(a) and I.2.6(b) for variation of T_M with altitude.)

The molecular-scale temperature variation is defined as a series of connected segments linear in geopotential altitude to $Z=90$ km, and linear in geometric altitude above 90 km. The general form of each linear segment is:

$$T_M = T_{M,0} + L'_M (H - H_0) \quad \text{I.2.6-(2)}$$

to 90 km, and

$$T_M = T_{M,0} + L_M (Z - Z_0) \quad \text{I.2.6-(3)}$$

above 90 km.

It is to be noted that L'_M is the gradient of molecular-scale temperature with geopotential altitude $\frac{dT_M}{dH}$, and L_M is the gradient of molecular-scale

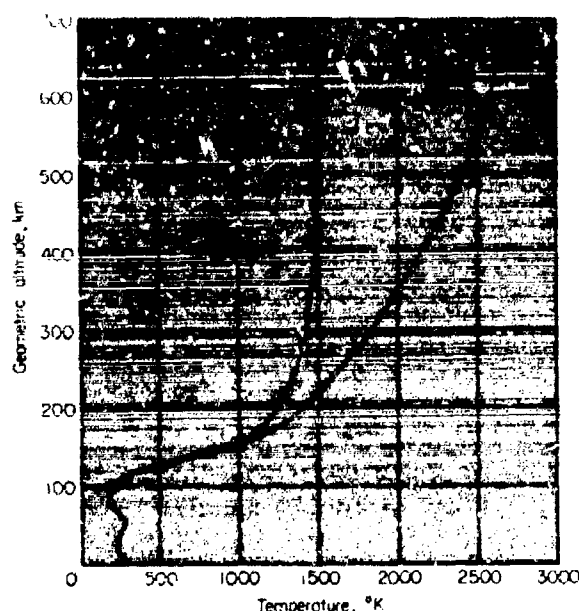


FIGURE I.2.6(a).—Molecular-scale temperature T_M and kinetic temperature T as functions of geometric altitude Z .

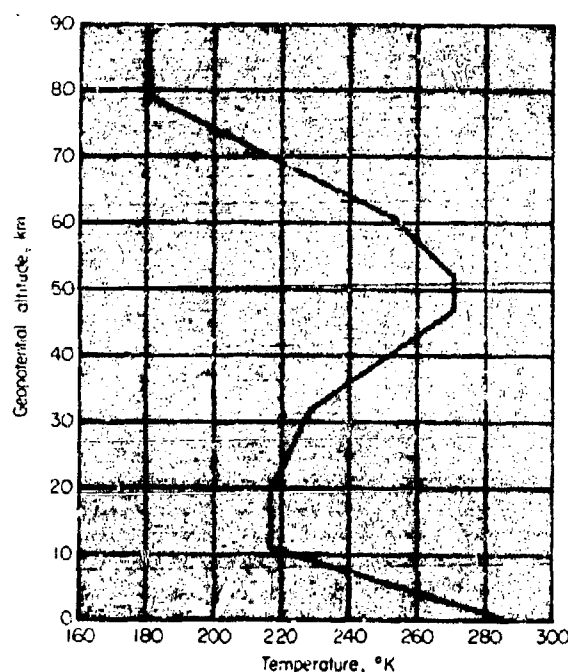


FIGURE I.2.6(b).—Temperature T as a function of geopotential altitude H . ($T_M = T$ below $Z=90$ km or $H=68.743$ km.)

temperature with geometric altitude $\frac{dT_M}{dZ}$. The quantity H_0 is the geopotential altitude at the base of a particular layer characterized by a specific

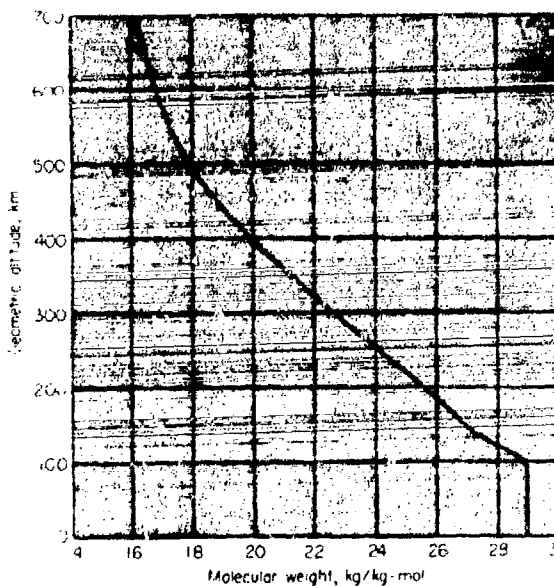


FIGURE 1.2.7.—Molecular weight M as a function of geometric altitude Z .

value of L'_M , while $T_{M,0}$ is the value of T_M at altitude H_0 or Z_0 , as appropriate. At and above 90 km, Z_0 , the geometric altitude at the base of a particular layer characterized by a specific value of L_M , is used in place of H_0 . The defining base values and gradients are given in table 1.4(e).

It is again emphasized that for altitudes up to 90 km the tables are arranged for entry in terms of

geopotential altitude H on left-hand pages, while on right-hand pages entry is made in terms of geometric altitude Z . Above 90 km the tables are arranged for entry in geometric altitude only.

1.2.7 MOLECULAR WEIGHT.—Up to $Z=90$ km the molecular weight M is taken as constant at 28.9644 (scale: $C^{12}=12.0000$; see section 1.2.1 for further discussion of this atomic-weight scale). This value of M is, to six significant figures, the sea-level value M_0 found from the perfect-gas law (eq. 1.2.2-(1)) and the adopted values of P_0 , ρ_0 , t_0 , and R^* (see table 1.2.1). The value 28.9644 is equivalent to the value 28.966 (scale: oxygen=16) adopted in resolution 164 of the International Meteorological Organization Twelfth Conference of Directors, 1948, and is equal, to six significant figures, to the mean molecular weight of air calculated from the composition of dry air as given in table 1.2.7. Table 1.2.7 is taken from reference 11 except for minor modifications based upon recent CO_2 measurements. (See, for example, ref. 12.)

Above 90 km, mainly because of molecular dissociation and diffusive separation, the molecular weight changes as depicted in figure 1.2.7. A very limited amount of experimental data about molecular weight is presently available above an altitude of 90 km. The tabulated molecular weights have been calculated from polynomials fitted to the values given in reference 13.

1.2.8 SEA-LEVEL PROPERTIES.—Since mean sea level is the zero-altitude reference point in the computations, it is convenient to present numerical values for this reference point. These values are given in table 1.2.8.

TABLE 1.2.7.—NORMAL COMPOSITION OF CLEAN, DRY ATMOSPHERIC AIR NEAR SEA LEVEL

Constituent gas and formula	Content, percent by volume	Content variable relative to its normal	Molecular weight*
Nitrogen (N_2)	78.084	—	28.0134
Oxygen (O_2)	20.9476	—	31.9988
Argon (Ar)	0.934	—	39.948
Carbon dioxide (CO_2)	0.0314	†	44.00995
Neon (Ne)	0.001818	—	20.183
Helium (He)	0.000524	—	4.0026
Krypton (Kr)	0.000114	—	83.80
Xenon (Xe)	0.0000087	—	131.30
Hydrogen (H_2)	0.00005	?	2.01594
Methane (CH_4)	0.000†	†	16.04303
Nitrous oxide (N_2O)	0.00005	—	44.0128
Ozone (O_3)	Summer: 0 to 0.000007 Winter: 0 to 0.000002	†	47.9982
Sulfur dioxide (SO_2)	0 to 0.0001	†	64.0628
Nitrogen dioxide (NO_2)	0 to 0.000002	†	46.0055
Ammonia (NH_3)	0 to trace	†	17.03061
Carbon monoxide (CO)	0 to trace	†	28.01055
Iodine (I_2)	0 to 0.000001	†	253.8088

*On basis of carbon-12 isotope scale for which $C^{12}=12$.

†The content of the gases marked with a dagger may undergo significant variations from time to time or from place to place relative to the normal indicated for those gases.

TABLE 1.2.8.—SEA-LEVEL VALUES OF ATMOSPHERIC PROPERTIES

Symbol	Metric	English
$C_{s,0}$	340.294 m sec ⁻¹	1116.45 ft sec ⁻¹
g_0	9.80665 m sec ⁻²	32.1741 ft sec ⁻²
$H_{P,0}$	8434.5 m	27,672 ft
k_0	6.0530×10^{-6} kg-cal m ⁻¹ sec ⁻¹ (°K) ⁻¹	4.0674×10^{-6} BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹
L_0	6.6328×10^{-8} m	2.1761×10^{-7} ft
M_0	28.9644 (dimensionless)	28.9644 (dimensionless)
n_0	2.5471×10^{25} m ⁻³	7.2127×10^{23} ft ⁻³
P_0	1.013250×10^5 newtons m ⁻²	2116.22 lbf ft ⁻²
T_0	288.15° K	518.67° R
\bar{V}_0	458.94 m sec ⁻¹	1505.7 ft sec ⁻¹
η_0	1.4607×10^{-3} m ² sec ⁻¹	1.5723×10^{-4} ft ² sec ⁻¹
μ_0	1.7894×10^{-9} kg m ⁻¹ sec ⁻¹	1.2024×10^{-4} lb ft ⁻¹ sec ⁻¹
ν_0	6.9193×10^8 sec ⁻¹	6.9193×10^8 sec ⁻¹
ρ_0	1.2250 kg m ⁻³	0.076474 lb ft ⁻³
σ_0	3.65×10^{-10} m	11.975×10^{-10} ft
ω_0	12.013 kg m ⁻³ sec ⁻³	2.4605 lb ft ⁻³ sec ⁻³

*These values are adopted for purposes of computation. The remaining values are derived from the adopted values.

1.2.9 ABSOLUTE TEMPERATURE.—The absolute temperature (in °K) of the melting point of ice under a pressure of 101,325.0 newtons m⁻² is taken as

$$T_i = 273.15^\circ \text{K}$$

based on the internationally adopted redefinition of the Kelvin scale. Temperatures T on the absolute scale (°K) are taken as

$$T = T_i + t \quad \text{I.2.9--(1)}$$

where t is the temperature on the Celsius scale (°C). The magnitudes of the Kelvin and the Celsius degrees are equal.

Determination of the value of atmospheric temperature T at great altitudes, using conventional measuring techniques, requires a knowledge of molecular weight M of the air at that altitude. Without this knowledge of molecular weight, measurements yield only the value of T/M . Because of the uncertainty in the value of M at high altitudes, the temperature measurements from rockets are derived from the ratio T/M . This ratio, however, may be shown to relate the basic atmospheric properties of pressure, density, specific weight, scale height, particle speed, and speed of sound to altitude. That is, the altitude function of this ratio defines the altitude function of these properties. Thus, it is possible to find values of T to the degree of reliability with which M can be determined.

1.2.10 PRESSURE.—Within an atmospheric layer throughout which T_M is a linear function of H , the hydrostatic equation and the perfect gas law yield the following expression for the pressure:

$$\log_e P = \log_e P_i - \frac{g_0}{L'_M} \frac{M_0}{R^*} \log_e \frac{L'_M(H-H_i) + T_{M,i}}{T_{M,i}} \quad (L'_M \neq 0) \quad \text{I.2.10--(1)}$$

$$\log_e P = \log_e P_i - \frac{g_0 M_0}{R^*} \frac{1}{T_{M,i}} (H-H_i) \quad (L'_M = 0) \quad \text{I.2.10--(2)}$$

Or, alternately,

$$\frac{P}{P_i} = \left(\frac{T_{M,i}}{T_{M,i} + L'_M h} \right)^{\frac{g_0 M_0}{R^* L'_M}} \quad (L'_M \neq 0) \quad \text{I.2.10--(3)}$$

and

$$\frac{P}{P_i} = \exp \left(- \frac{g_0 M_0 h}{R^* T_{M,i}} \right) \quad (L'_M = 0) \quad \text{I.2.10--(4)}$$

wherein

$$h = H - H_i$$

The foregoing expressions, which are in terms of *geopotential* height, H , are used to 90 km. Since geometric height is used from 90 to 700 km (ref. 13), the expression for pressure within a layer throughout which T_M is a linear function of geometric altitude Z is given by:

$$\log_e P = \log_e P_i - \frac{1}{L_M} \frac{M_0}{R^*} \int_{Z_i}^Z \frac{g dZ}{Z - Z_i + \frac{T_{M,i}}{L_M}} \quad (L_M \neq 0) \quad \text{I.2.10--(5)}$$

and

$$\log_e P = \log_e P_i - \frac{M_0}{R^*} \int_{Z_i}^Z \frac{g dZ}{T_{M,i}} \quad (L_M = 0) \quad \text{I.2.10--(6)}$$

Since L_M is always greater than zero in the altitude range 90 to 700 km, equation I.2.10--(6) is not required herein, but is retained for completeness.

The variation of pressure with height is given in figure I.2.10.

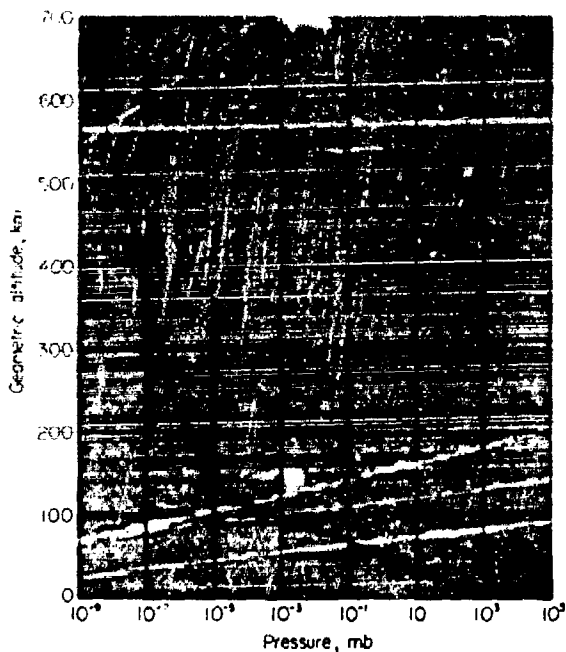


FIGURE 1.2.10.—Pressure P as a function of geometric altitude Z .

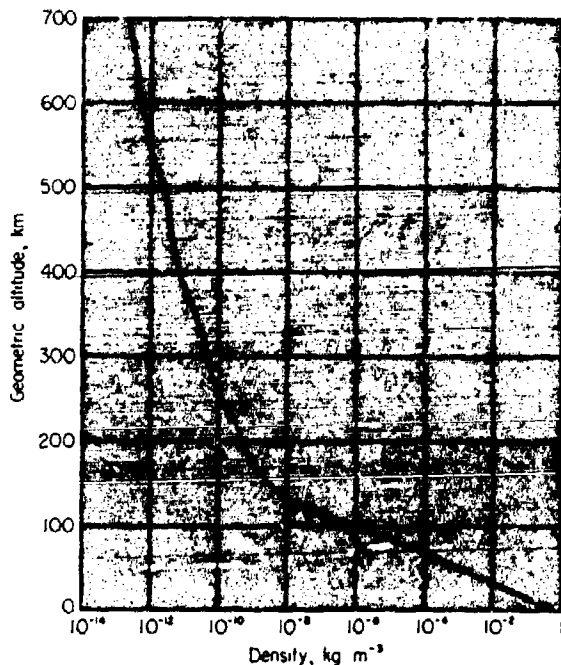


FIGURE 1.2.11.—Density ρ as a function of geometric altitude Z .

1.2.11 DENSITY.—The density can be calculated from the pressure (see section 1.2.10) and the molecular-scale temperature (see section 1.2.6) by means of the perfect gas law:

$$\rho = \frac{M_0 P}{R^* T_M} \quad 1.2.11-(1)$$

Variation of density with geometric altitude is given in figure 1.2.11.

1.3 DERIVED QUANTITIES

1.3.1 SPECIFIC WEIGHT.—The specific weight ω is the weight per unit volume, that is,

$$\omega = \rho g \quad 1.3.1-(1)$$

Equation 1.3.1-(1) and the perfect gas law yield

$$\omega = \rho g = g \frac{M_0 P}{R^* T_M} \quad 1.3.1-(2)$$

Figure 1.3.1 gives a graphical representation of specific weight with geometric altitude.

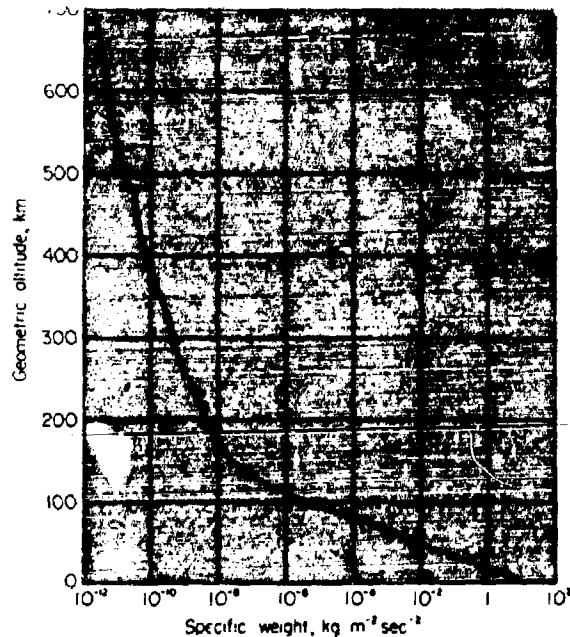


FIGURE 1.3.1—Specific weight ω as a function of geometric altitude Z .

1.3.2 SCALE HEIGHTS.—The pressure scale height (see fig. 1.3.2) is widely used and hence is included among the tabular quantities. Pressure scale height is defined by

$$H_P = \frac{R^* T_M}{M_0 g} \quad 1.3.2-(1)$$

In terms of H_P the pressure ratio is

$$\frac{P}{P_0} = \exp \left(- \int_0^Z \frac{dZ}{H_P} \right) \quad 1.3.2-(2)$$

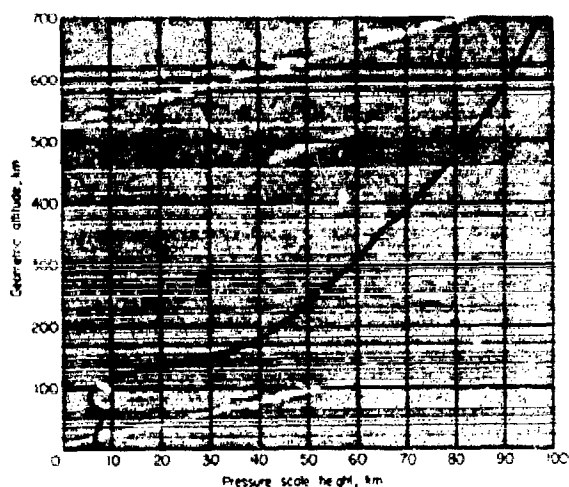


FIGURE 1.3.2.—Pressure scale height H_p as a function of geometric altitude Z .

The density scale height H_ρ is defined by

$$H_\rho = \frac{H_p}{1 + \frac{R^*}{M_0 g} \frac{dT_M}{dZ}} \quad 1.3.2-(3)$$

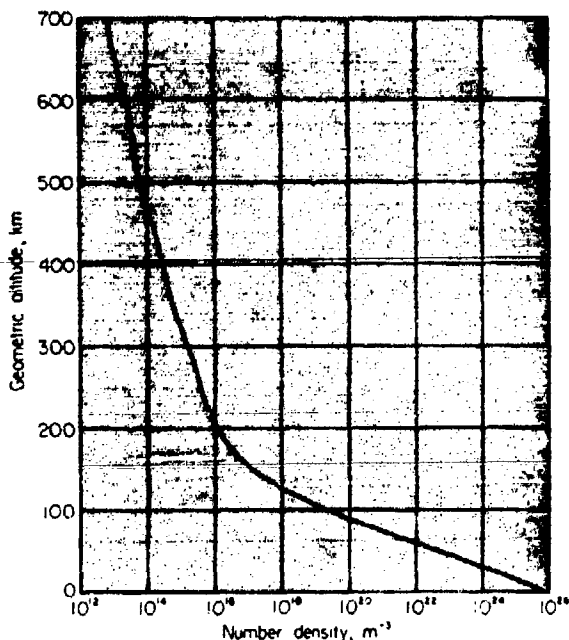


FIGURE 1.3.3.—Number density n as a function of geometric altitude Z .

1.3.3 NUMBER DENSITY.—The number density of air is defined to be the number of atmospheric particles per unit volume and the particles are considered to be neutral. The expression used is

$$n = \frac{M_0}{R^*} \frac{NP}{MT_M} \quad 1.3.3-(1)$$

wherein N is Avogadro's number and M is the molecular weight. The variation of number density with geometric altitude is given in figure 1.3.3.

1.3.4 MEAN AIR-PARTICLE SPEED.—The mean air-particle speed is the arithmetic average of the speeds of all air particles in the volume element being considered. All particles are considered to be neutral. For a valid average to occur, there must, of course, be a sufficient number of particles involved to represent mean conditions. Pressure and temperature gradients within the volume must also be negligible. The mean particle speed is given by

$$\bar{V} = \left(\frac{8 R^*}{\pi M_0} T_M \right)^{1/2} \quad 1.3.4-(1)$$

The variation of particle speed with geometric altitude is shown in figure 1.3.4.

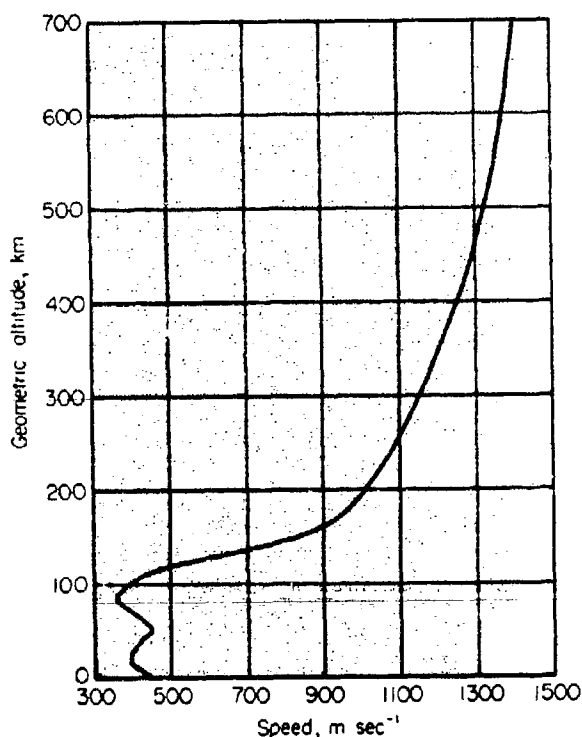


FIGURE 1.3.4.—Mean particle speed \bar{V} as a function of geometric altitude Z .

1.3.5 MEAN FREE PATH.—The mean free path L is the mean value of the distances traveled by each of the neutral particles, in a selected volume, between successive collisions with other particles in that volume. As before, a meaningful average requires that the selected volume be big enough to contain a

large number of particles. The computational form for L is

$$L = \frac{1}{(2)^{1/2} \pi N \sigma^2} \frac{R^* M T_M}{M_0 P} \quad \text{I.3.5--(1)}$$

This expression at great altitudes is only valid under assumptions that hold M , T_M , P , and σ constant throughout the volume used. Figure I.3.5 depicts the mean free path in terms of altitude.

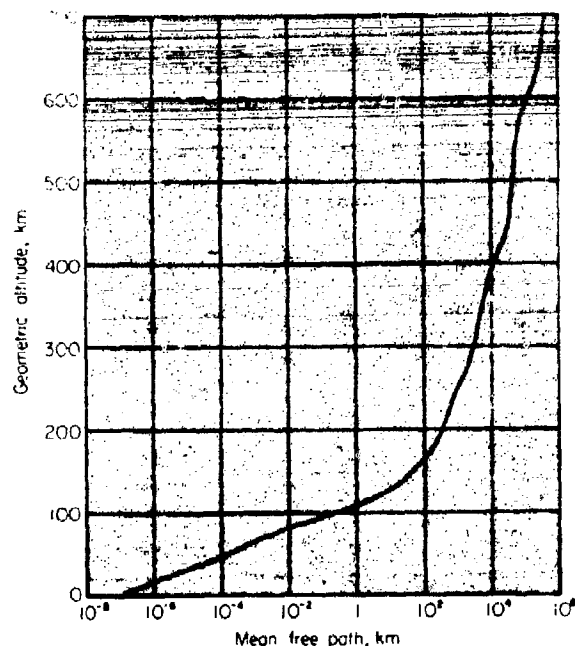


FIGURE I.3.5.—Mean free path L as a function of geometric altitude Z .

I.3.6 COLLISION FREQUENCY.—The average collision frequency ν is the average speed of the air particles within a selected volume divided by the mean free path L of the particles within that volume. That is,

$$\nu = \frac{V}{L} \quad \text{I.3.6--(1)}$$

and in computational form:

$$\nu = 4\sigma^2 N \left(\frac{M_0}{R^*} \right)^{1/2} \frac{P}{M(T_M)^{1/2}} \quad \text{I.3.6--(2)}$$

Note that σ is the effective collision diameter of the mean air particle. The foregoing expressions are taken to apply to neutral particles only, since no considerations involving charged particles are introduced for purposes of developing the main tables.

Figure I.3.6 graphically displays the variation of collision frequency with altitude. See section I.3.4 for a discussion of the assumptions under which equation I.3.6--(2) is valid at great altitudes.

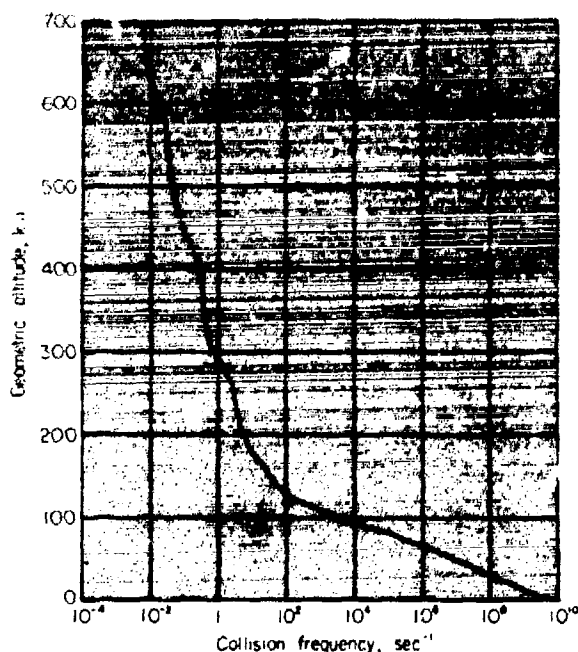


FIGURE I.3.6.—Collision frequency ν as a function of geometric altitude Z .

I.3.7 SPEED OF SOUND.—The expression adopted for the speed of sound is

$$C_s = \left(\gamma \frac{R^*}{M_0} T_M \right)^{1/2} \quad \text{I.3.7--(1)}$$

It is to be noted that γ is the ratio of specific heat of air at constant pressure to that at constant volume, and is taken to be 1.40 exact (dimensionless). Equation I.3.7--(1) for the speed of sound applies only when the sound wave is a small perturbation on the ambient condition. Calculated values of C_s have been found to vary slightly from experimentally determined values.

The limitations of the concept of velocity of sound due to extreme attenuation are also of concern. The attenuation which exists at sea level for high frequencies applies to successively lower frequencies as atmospheric pressure decreases, or as the mean free path increases. For this reason the concept of speed of sound (except for frequencies approaching zero) progressively loses its range of applicability at high altitudes. Hence, the main tables terminate entry of values for speed of sound at 90 km.

Figure I.3.7 shows the variation with altitude of the computed speed of sound.

I.3.8 COEFFICIENT OF VISCOSITY.—The coefficient of viscosity is defined as a coefficient of internal friction developed where gas regions move adjacent to each other at different velocities. The following expression, basically from kinetic theory, but with

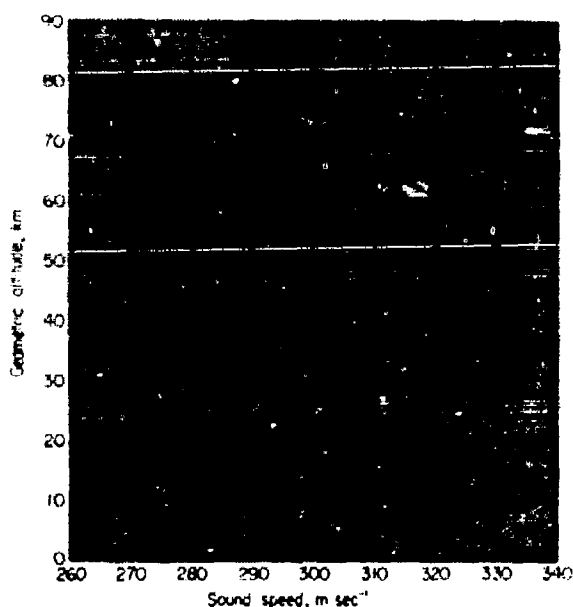


FIGURE 1.3.7.—Sound speed C , as a function of geometric altitude Z .

constants derived from experiment, is used for computation of the tables:

$$\mu = \frac{\beta T^{3/2}}{T + S} \quad 1.3.8-(1)$$

In this equation β is a constant equal to $1.458 \times 10^{-6} \text{ kg sec}^{-1} \text{ m}^{-1} (\text{°K})^{-1/2}$ (exact) and S is Sutherland's constant, equal to 110.4°K (exact).

Equation 1.3.8-(1) fails for conditions of very high and very low temperatures and under conditions occurring at great altitudes. (Consequently tabular entries for coefficient of viscosity are terminated at 90 km.) For these reasons caution is necessary in making measurements involving probes and other objects that are small with respect to the mean free path of molecules in the region of 32 to 90 km.

The variation of the coefficient of viscosity with altitude is shown in figure 1.3.8.

1.3.9 KINEMATIC VISCOSITY.—Kinematic viscosity is defined as the ratio of the coefficient of viscosity of a gas to the density of that gas; that is,

$$\nu = \frac{\mu}{\rho} \quad 1.3.9-(1)$$

Limitations of this equation are comparable to those discussed in section 1.3.8, and consequently tabular entries of kinematic viscosity are also terminated at the 90-km level. See figure 1.3.9 for a graphical representation of the variation of kinematic viscosity with altitude.

1.3.10 COEFFICIENT OF THERMAL CONDUCTIVITY.—The empirical expression (ref. 3) adopted for pur-

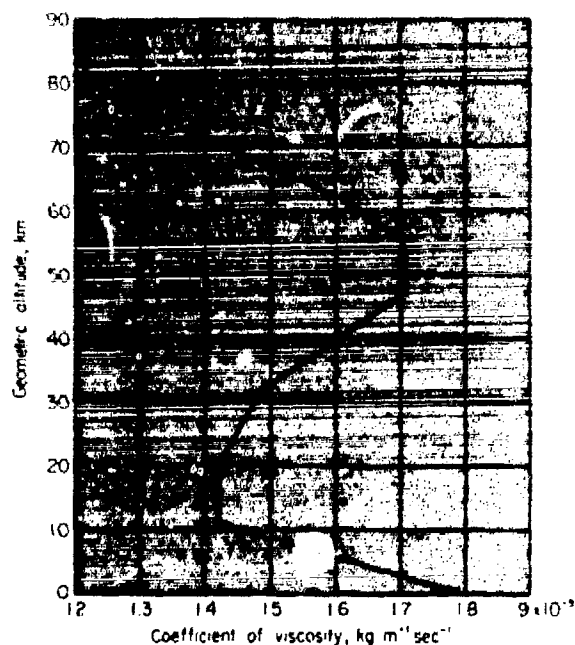


FIGURE 1.3.8.—Coefficient of viscosity μ as a function of geometric altitude Z .

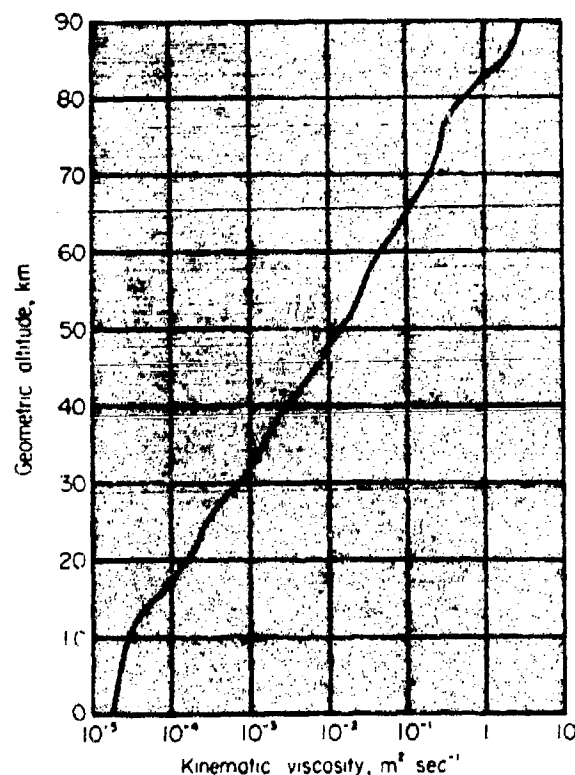


FIGURE 1.3.9.—Kinematic viscosity ν as a function of geometric altitude Z .

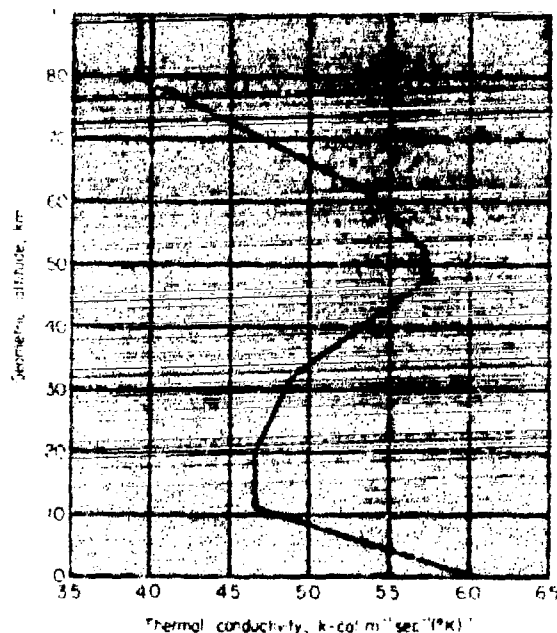


FIGURE 1.3.10.—Coefficient of thermal conductivity k as a function of geometric altitude Z .

poses of developing tabular values of the coefficient of thermal conductivity to the 90-km level is as follows:

$$k = \frac{6.325 \times 10^{-7} T^{0.7}}{T + 245.4 \times 10^{-3} (10/T)} \quad 1.3.10-(1)$$

Kinetic-theory determinations of thermal conductivity of some monatomic gases agree well with observation. For these gases thermal conductivity is directly proportional to the coefficient of viscosity. Modification of the simple theory has accounted in part for differences introduced by polyatomic molecules and by mixtures of gases. Tabular entry of values for coefficient of thermal conductivity is terminated at 90 km. The variation with height of this quantity is shown in figure 1.3.10.

1.3.11 MOLE VOLUME.—While not tabulated, mole volume enters into certain ancillary calculations. It is defined as the volume per mole; that is,

$$v = \frac{M}{\rho} = \frac{R^* M T}{P} \quad 1.3.11-(1)$$

Figure 1.3.11 gives the relationship between mole volume and altitude.

1.4. TABLES OF UNITS, CONVERSION FACTORS, AND DEFINING PROPERTIES

TABLE 1.4(a).—METRIC TO ENGLISH CONVERSIONS OF UNITS OF LENGTH, MASS, AND GEOPOTENTIAL

A. Defined relations (the constants are adopted as being exact):

1 foot	= 0.3048 meter
1 in. in	= 1,852 meters
1 pound	= 0.45359237 kilogram
1 standard geopotential foot	= 0.3048 standard geopotential meter

B. Derived relations:

1 meter	= 3.2808399... feet
1 meter	= 5.3995680... $\times 10^{-4}$ i.n. mi
1 kilogram	= 2.2046226... pounds
1 i.n. mi	= 6,076.1155... feet
1 foot	= 1.6457883... $\times 10^{-4}$ i.n. mi
1 standard geopotential meter	= 3.2808399... standard geopotential feet

TABLE 1.4(b).—METRIC TO ENGLISH AND ABSOLUTE TO NONABSOLUTE CONVERSIONS OF TEMPERATURE UNITS

A. Defined:

$$t(^{\circ}\text{C}) = T(^{\circ}\text{K}) - T_0(^{\circ}\text{K}), \text{ where } T_0(^{\circ}\text{K}) = 273.15(^{\circ}\text{K})$$

$$T(^{\circ}\text{R}) = 1.8 T(^{\circ}\text{K})$$

$$t(^{\circ}\text{F}) - t_0(^{\circ}\text{F}) = T(^{\circ}\text{R}) - T_0(^{\circ}\text{R}), \text{ where } t_0(^{\circ}\text{F}) = 32(^{\circ}\text{F})$$

B. Derived relations:

$$t_0(^{\circ}\text{C}) = 0(^{\circ}\text{C})$$

$$T_0(^{\circ}\text{R}) = 491.670(^{\circ}\text{R})$$

$$t(^{\circ}\text{C}) = [T(^{\circ}\text{R}) - T_0(^{\circ}\text{R})]/1.8 = [t(^{\circ}\text{F}) - t_0(^{\circ}\text{F})]/1.8$$

$$T(^{\circ}\text{R}) = 1.8[t(^{\circ}\text{C}) + 273.15(^{\circ}\text{C})] = t(^{\circ}\text{F}) - t_0(^{\circ}\text{F}) + 491.670(^{\circ}\text{R})$$

$$t(^{\circ}\text{F}) - 32(^{\circ}\text{F}) = 1.8(^{\circ}\text{C}) = 1.8[T(^{\circ}\text{K}) - 273.15(^{\circ}\text{K})]$$

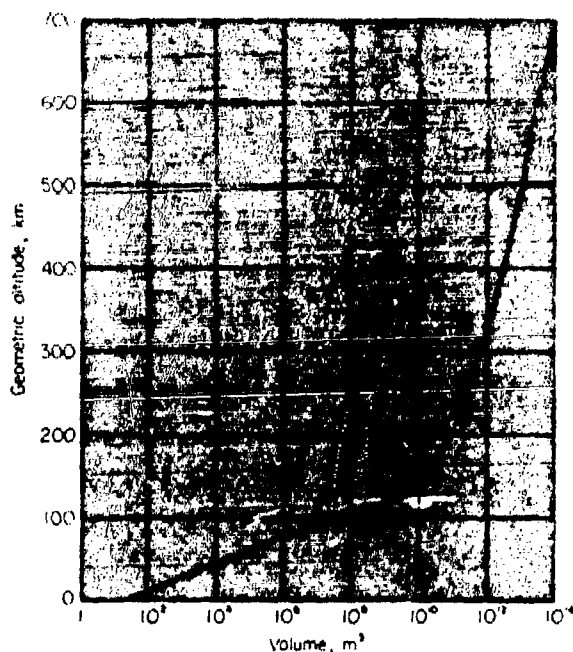


FIGURE 1.3.11.—Mole volume v as a function of geometric altitude Z .

TABLE 1.4(c).—ABSOLUTE SYSTEMS OF UNITS TO ABSOLUTE-
FORCE, GRAVITATIONAL SYSTEM OF UNITS, METRIC-ENGLISH

A. Defined:

$$1 \text{ force unit} = 1 \text{ mass unit} \times g$$

B. Derived relations:

$$1 \text{ kgf} = 9.80665 \text{ kg m sec}^{-2}$$

$$1 \text{ kg} = \frac{1}{9.80665} \text{ kgf sec}^2 \text{ m}^{-1} = 0.10197162 \text{ kgf sec}^2 \text{ m}^{-1}$$

$$1 \text{ lbf} = 0.45359237 \text{ kgf}$$

$$1 \text{ lbf} = 32.174049 \text{ lb ft sec}^{-2}$$

$$1 \text{ lb} = 0.031080950 \text{ lbf sec}^2 \text{ ft}^{-1}$$

$$= 0.031080950 \text{ slug}$$

$$1 \text{ slug} = 32.174049 \text{ lb}$$

TABLE 1.4(d).—THERMAL TO MECHANICAL UNITS, METRIC-
ENGLISH

A. Defined relations:

$$1 \text{ kg-cal} = \frac{1}{860} \text{ kw-hr (exact)}$$

$$1 \text{ kg-cal} = \frac{1.8}{0.45359237} \text{ BTU} = 3.9683207 \text{ BTU}$$

$$1 \text{ joule} = 1 \text{ watt-sec}$$

B. Derived relations:

$$1 \text{ kw-hr} = 3.6 \times 10^6 \text{ watt sec} = 3.6 \times 10^6 \text{ joules}$$

$$1 \text{ kg-cal} = \frac{3.6 \times 10^6}{860} \text{ joules} = 4,186.0465 \text{ joules}$$

$$= 4,186.0465 \text{ kg m}^2 \text{ sec}^{-2}$$

$$1 \text{ kg-cal} = \frac{3.6 \times 10^6}{860 \times 9.80665} \text{ m kgf} = 426.85795 \text{ m kgf}$$

$$1 \text{ kg-cal} = \frac{3.6 \times 10^6}{860 \times 9.80665 \times 0.45359237 \times 0.3048} \text{ ft lbf}$$

$$= 3087.4696 \text{ ft lbf}$$

$$1 \text{ BTU} = \frac{0.45359237}{1.8} \text{ kg-cal} = 0.25199576 \text{ kg-cal}$$

$$1 \text{ BTU} = \frac{3.6 \times 10^6}{860 \times 0.3048 \times 9.80665 \times 1.8} \text{ ft lbf}$$

$$= 778.02922 \text{ ft lbf}$$

$$1 \text{ BTU} = \frac{3.6 \times 10^6}{860 \times (0.3048)^2 \times 1.8} \text{ lb ft}^2 \text{ sec}^{-2}$$

$$= 25032.349 \text{ lb ft}^2 \text{ sec}^{-2}$$

*The calorie used here is the International Steam Table calorie and the joule is the mean international joule.

TABLE 1.4(e).—DEFINING PROPERTIES OF THE STANDARD
ATMOSPHERE

Altitude, H, km	Molecular- scale tem- perature, T _M , °K	Gradient, L _M , °K/km	Molecular weight, M	Kinetic temper- ature, T, °K
0.000	288.15		28.9644	288.15
11.000	216.65	-6.5	28.9644	216.65
20.000	216.65	0.0	28.9644	216.65
32.000	228.65	+1.0	28.9644	228.65
47.000	270.65	+2.8	28.9644	270.65
52.000	270.65	0.0	28.9644	270.65
61.000	252.65	-2.0	28.9644	252.65
70.000	180.65	-4.0	28.9644	180.65
88.743	180.65	0.0	28.9644	180.65

Altitude, Z, km	Molecular- scale tem- perature, T _M , °K	Gradient, L _M , °K/km	Molecular weight, M	Kinetic temper- ature, T, °K
90	180.65	+3	28.9644	180.65
100	210.65	+5	28.88	210.02
110	260.65	+10	28.56	257.00
120	360.65	+20	28.07	349.49
150	960.65	+15	26.92	892.79
160	1,110.65	+10	26.66	1,022.2
170	1,210.65	+7	26.40	1,103.4
190	1,350.65	+5	25.85	1,205.4
230	1,550.65	+4	24.70	1,322.3
300	1,830.65	+3.3	22.06	1,432.1
400	2,160.65	+2.6	19.94	1,487.4
500	2,420.65	+1.7	17.94	1,499.2
600	2,590.65	+1.1	16.84	1,506.1
700	2,700.65		16.17	1,507.6

PART II

Additional Information Relating to the Atmosphere

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PART II

Additional Information Relating to the Atmosphere

II.0 INTRODUCTION

Part II of this document gives additional information relating to the atmosphere. This additional information will be found useful in extending the scope of Parts I and III, as well as in gaining an appreciation of trends in knowledge of the earth's atmosphere.

II.1 VALIDITY

The validity of Parts I and III of this document, insofar as the equations and fundamental numbers (constants) are concerned, is satisfactorily established by references and discussion throughout Part I. It is in the domain of validity of the assumptions made in Part I that further examination is necessary.

It will be recalled from the foreword and from Part I that the *U.S. Standard Atmosphere, 1962* is an idealized, middle-latitude (approximately 45°) year-round mean over the range of solar activity between sunspot minima and maxima. It is further assumed in Part I that the atmosphere is a perfect gas, that it rotates everywhere with the earth, and that it is composed of neutral particles. Despite these assumptions, however, the adopted temperature profile (and molecular-weight profile) are based upon experimentally determined values, modified slightly to achieve easily computable gradients. To some extent, therefore, implicit account is taken of the real features of the atmosphere; that is, the standard is considerably more realistic than the simplifying assumptions would indicate.

Clearly, however, the real atmosphere differs from the standard and there are, of course, recognized departures, both temporal and spatial. Furthermore, in the higher reaches of the atmosphere the facts are well enough established now to extend the speculative region to 700 km with greater confidence than heretofore. For these reasons the systematic variations and observed (or inferred) extremes are discussed in the following section.

II.2 SYSTEMATIC VARIATIONS AND OBSERVED AND INFERRED EXTREMES

II.2.1 SEA LEVEL TO 90 KILOMETERS.—In the 0- to 90-km region, latitudinal and seasonal variations about the mean are present. In addition, both observation and inference show that extreme values of considerable magnitude exist. This information is

being developed in detail in a series of supplemental atmospheres to be published.

A family of nine atmospheres, extending up to 90 km, is being prepared under the direction of COESA. They include a mean annual atmosphere for 15° N. latitude (a region of small seasonal change) and January and July atmospheres for 30°, 45°, 60°, and 75° N. latitude. These atmospheres, supplemental to the *U.S. Standard Atmosphere, 1962*, will provide information to scientists and engineers on latitudinal, seasonal, and interdiurnal changes in atmospheric structure in order that they may investigate the importance of these departures from the standard in experiments and designs.

Based on preliminary work on these supplemental atmospheres for latitudes 15° to 60° N., envelopes of mean seasonal densities and temperatures have been estimated and are given in figures II.2.1(a) and II.2.1(b) for altitudes up to 90 km. The values shown by the envelope curves of any of the thermodynamic properties of the atmosphere could not possibly be encountered at all altitudes at any given location and time. The warmest surface layers in the tropics are associated with the coldest tropopause level, for example.

Systematic density variations.—The estimated range of systematic changes (seasonal and latitudinal variations, equator to 60° N.) of density is indicated by horizontal arrows in figure II.2.1(a) as percentage departures from standard. Above 30 km, both the largest negative and the largest positive departures occur at 60° N. latitude. The negative departures represent mean winter conditions and the positive departures represent mean summer conditions. Below 30 km, the range cannot be depicted for all levels by the maximum and minimum seasonal values at only one latitude.

The minimum latitudinal and seasonal variability, less than 1 percent, occurs at the isopycnic level near 8 km. Other levels of minimum variability, less pronounced than at the isopycnic level, occur at 26 and 85 km. Maximum seasonal and latitudinal variations occur near 15 and 70 km.

Extremes of density.—Observed extremes of density at levels above 30 km are indicated by circles in figure II.2.1(a). The minimum values were derived by Jones and Peterson (ref. 14) from a 27 January 1958 falling-sphere experiment at Fort Churchill,

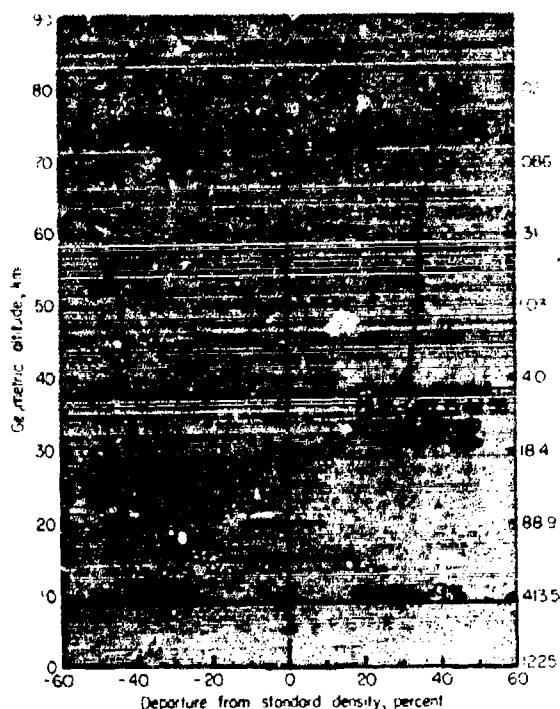


FIGURE II.2.1(a).—Range of systematic variability of density about the U.S. Standard Atmosphere, 1962.

Canada. The maximum densities above 40 km were observed by Nelson W. Spencer from a 15 July 1958 rocket flight (pressure sensor) at Fort Churchill, Canada (ref. 30).

Temperature variations.—Extreme temperature observations and mean seasonal variations about the U.S. Standard Atmosphere, 1962 are shown in figure II.2.1(b). The range of mean winter and summer temperatures, shown as horizontal arrows, is based upon hemispheric radiosonde data to 30 km. Between 30 and 60 km it is based on observations from instruments released by meteorological rockets from nearly a dozen northern-hemisphere launching sites. The extreme observations and the variations above 60 km have been extracted from other rather sparse rocket data. These rocket instruments include rocket-grenade temperature experiments, pitot-static pressure measurements, falling-sphere density measurements, and rocket-network temperature thermistors (to 50 km).

Both seasonal fluctuations and observed values are least accurate above 60 km, where direct temperature measurements are apparently subject to greatest errors. The data at these levels are based primarily on very few rocket-grenade observations which involve the use of sound ranging in deriving temperature and wind velocity. Most of the temperature extremes below 50 km are based on thermistor ob-

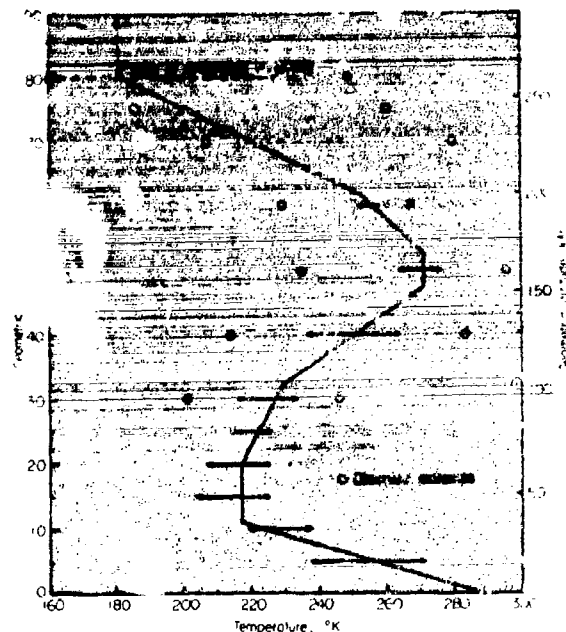


FIGURE II.2.1(b).—Range of systematic variability of temperature about the U.S. Standard Atmosphere, 1962.

servations from the many flights of the recently organized semioperational Meteorological Rocket Network (MRN).

Except at the surface, and at heights above 60 km where warm winter temperatures at 60° N. latitude cause large positive departures, the U.S. Standard Atmosphere, 1962 temperature profile lies near the center of the winter and summer seasonal range. Near 60 km, winter and summer temperature profiles at all latitudes approach or cross the standard. From 60 km to at least 90 km, winter temperatures generally are warmer and summer temperatures cooler than the standard (ref. 15).

II.2.2 90 KILOMETERS TO 200 KILOMETERS.—Within the region of 90 to 200 km only observed and inferred extremes are sufficiently well established to warrant discussion. The paucity of data in this region does not permit discussion of systematic variations.

It must be remembered that when data are obtained with various types of measuring equipment (some of it of an experimental nature) the maximum spread in the measured values of a given parameter (the extremes of measured data) may not be at all representative of the actual variability of that parameter. This should be kept in mind when considering measured values of atmospheric properties in the range of 90 to 200 km.

Extremes of molecular-scale temperature.—Figure II.2.2(a) shows experimental values of molecular-scale temperature compared with those of the stand-

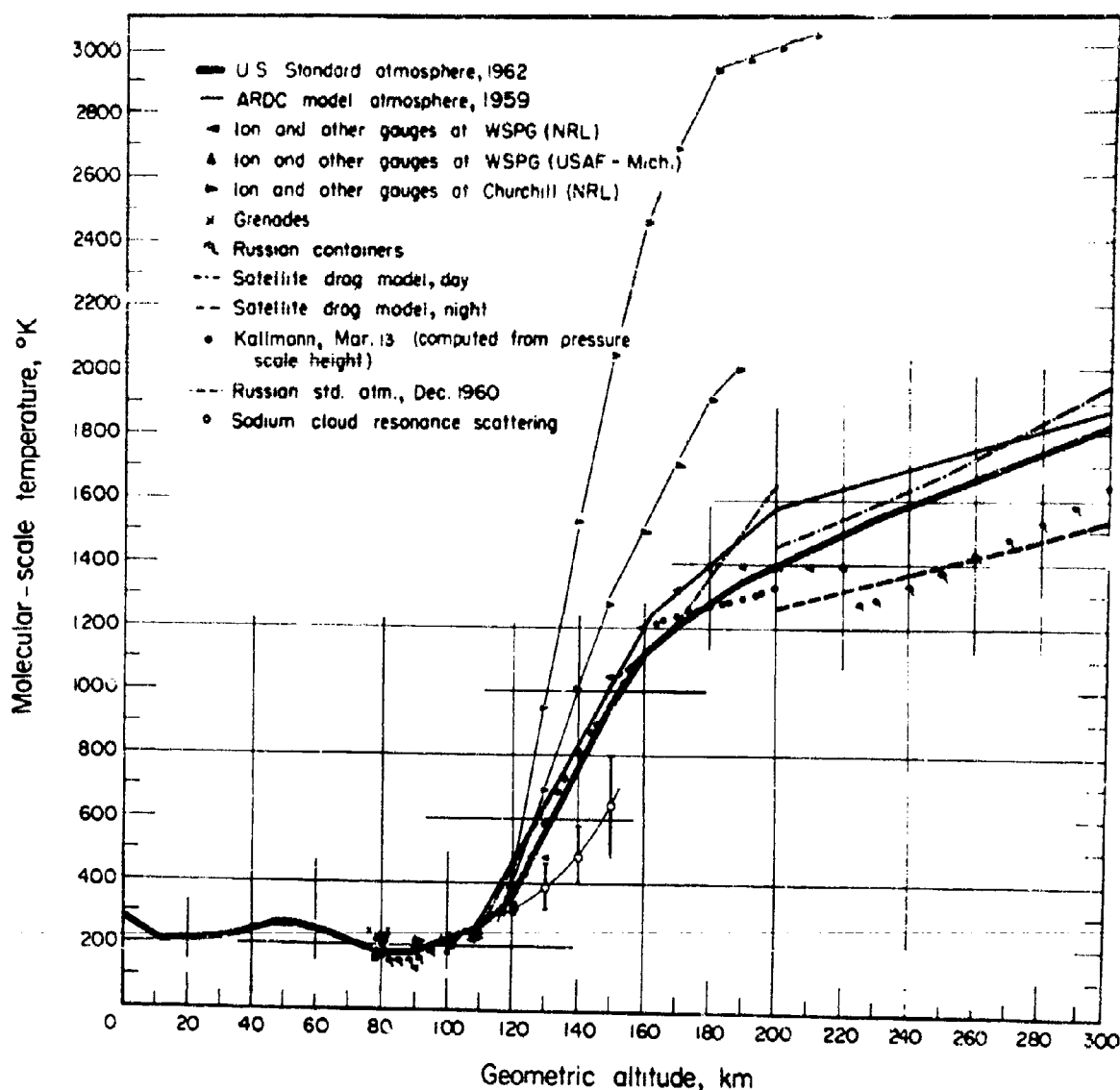


FIGURE II.2.2(a).—Molecular-scale temperatures of U.S. Standard Atmosphere, 1962 compared with ARDC Model Atmosphere, 1959 and with available data.

ard, the ARDC Model Atmosphere, 1959 (ref. 10), and the USSR Standard Atmosphere, 1960. The experimental data were obtained primarily at the White Sands Proving Ground, at Churchill, and at Russian rocket-launching sites. All the data presented lie within 100° K of the U.S. Standard Atmosphere, 1962 (in the 90- to 200-km range) except for three sets of measurements. Two of these measurements, for which the temperatures were substantially higher, were made at Churchill (at high geomagnetic latitude) during the International Geophysical Year near the peak of solar activity, when solar flares were frequent. Thus, not only was the solar 10.7-cm wavelength flux about

350×10^{-22} watts $m^{-2}/(cycle \ sec^{-1})$ (see section II.3), for which a daytime temperature of $2,000^{\circ}$ K to $2,200^{\circ}$ K would be predicted at 200 km at low latitudes, but the corpuscular radiation would be expected to be particularly intense. For these reasons, the measured temperatures are probably reasonably accurate, but apply under very unusual conditions. The third set of measurements gives temperatures as much as 300° K below the standard. The measurements were made in terms of the Doppler broadening of the D lines of sodium released in the atmosphere. The reason that these measurements yield lower temperatures is not understood, particularly since this technique has yielded temperatures

(ref. 16) of 1.450°K at higher altitudes in good agreement with other data.

Extremes of density.—Density measurements are compared with the *U.S. Standard Atmosphere, 1962* in figure II.2.2(b). It is believed that the two sets of points with very low densities obtained with mass spectrometers between 150 and 210 km are not accurate. The lowest of these was obtained with a Bennett type mass spectrometer at Churchill, Canada, on 20 November 1956. This was an early flight with this mass spectrometer and evidently the instrument did not function well, as can be seen by the apparent increase in density between 200 and 210 km indicated by the instruments. Because the signal strength was small compared with the background, the accuracy of the White Sands Proving Ground ion gauge measurements, which gave low densities above 130 km, is poor. The other data points shown in figure II.2.2(b) are probably reasonably accurate. However, they represent conditions ranging from night to day and minimum to maximum solar activity. At 90 km the measured values lie within a factor of less than 2 on either side of the mean density. The actual atmospheric density probably lies within a factor of 2 on either side of the mean value up to 200 km, although the range of variability is slowly increasing at higher altitudes.

Extremes of pressure.—In figure II.2.2(c) pressure data are compared with the standard. These data are basically the same as those in figure II.2.2(b), from which they are derived by means of the gas laws. The mass-spectrometer data are not included. Since in this altitude region pressure is derived from density and the slope of the density curve, the variation in the derived values of pressure will be greater than the variation in the density measurements. This does not necessarily imply that the actual variation in atmospheric pressure is any greater than that in the density. At 90 km, pressures as high as three times the standard have been measured. At 120 km the range is a factor of about 2.5 on either side of the mean. This range gradually increases until it is almost a factor of 4 on either side of the mean at 200 km altitude. Data shown in figures II.2.2(a), (b), and (c) are drawn from investigations of a number of authors (refs. 17 to 32).

II.2.3 200 KILOMETERS TO 700 KILOMETERS.—Systematic variations are identifiable in the 200- to 700-km range, but insufficient data exist to deal with extreme values. These systematic variations have been available only since the analysis of drag effects on the motions of artificial satellites.

An analysis of atmospheric drag effects on the motion of artificial satellites has revealed the existence of large density fluctuations in the atmosphere above the height of 200 km. Although several classes of fluctuation can be distinguished (that is, characteristic amplitude vs. time pattern), all have

one feature in common—they are caused by variations in heating of the earth's atmosphere due to variations in energy coming from the sun. In addition to erratic and semiperiodic changes, there is a more regular diurnal variation connected with the position of the sun with respect to the zenith.

The atmospheric model.—Since all the density fluctuations, including the diurnal variation, are of thermal origin, and since the kinetic temperature above 300 km is essentially independent of height, it would be convenient and much simpler to use the kinetic temperature as a parameter to describe atmospheric variations. Unfortunately, the observed quantity is the density, not the temperature. In order to convert densities into temperatures, there must first be generated a good atmospheric model in which densities are tabulated for many different temperatures. Nicolet's 1961 model (ref. 33) has been shown by Jacchia (refs. 34 and 35) to be adequate for the purpose, at least for heights above 300 km. This model is based on diffusion equilibrium, with known boundary conditions at a height of 120 km, with densities as a function of height for 12 standard top-atmospheric temperatures ranging from 773°K to $2,133^\circ\text{K}$; thus it is possible to interpolate the temperature when a density is given for a specified height, and the reverse. *All the temperatures mentioned in this portion of the discussion are top-atmospheric temperatures derived from densities by means of Nicolet's 1961 model.* It is to be noted that Nicolet has developed atmospheric models based on diffusion equilibrium in which helium plays a role. Heat conduction is the essential process that determined the gradient of the temperature.

Introduction of boundary conditions at 120 km, where diffusion begins for major constituents, leads to atmospheric models that can be used for analysis of day-to-night and solar activity variations in the whole thermosphere from 150 to 2,000 km. An analysis of the behavior of the heterosphere (i.e., of the terrestrial atmosphere where the mean molecular mass cannot be taken as a constant parameter) requires a theoretical study to supplement observational results from which it is not yet possible to obtain all the parameters needed for a complete picture of the physical conditions.

The variations of temperature and molecular weight with height in Nicolet's model differ from those adopted in the *U.S. Standard Atmosphere, 1962*. As a consequence, a temperature profile derived from Nicolet's tables for the densities of the present model shows considerable difference from the temperature profile in table I of reference 13. These differences are shown in table II.2.3(a).

As can be seen, apart from the critical region around a geometric height of 200 km, the difference in temperature between the two atmospheric models is about 200°K on the average, and it can be said

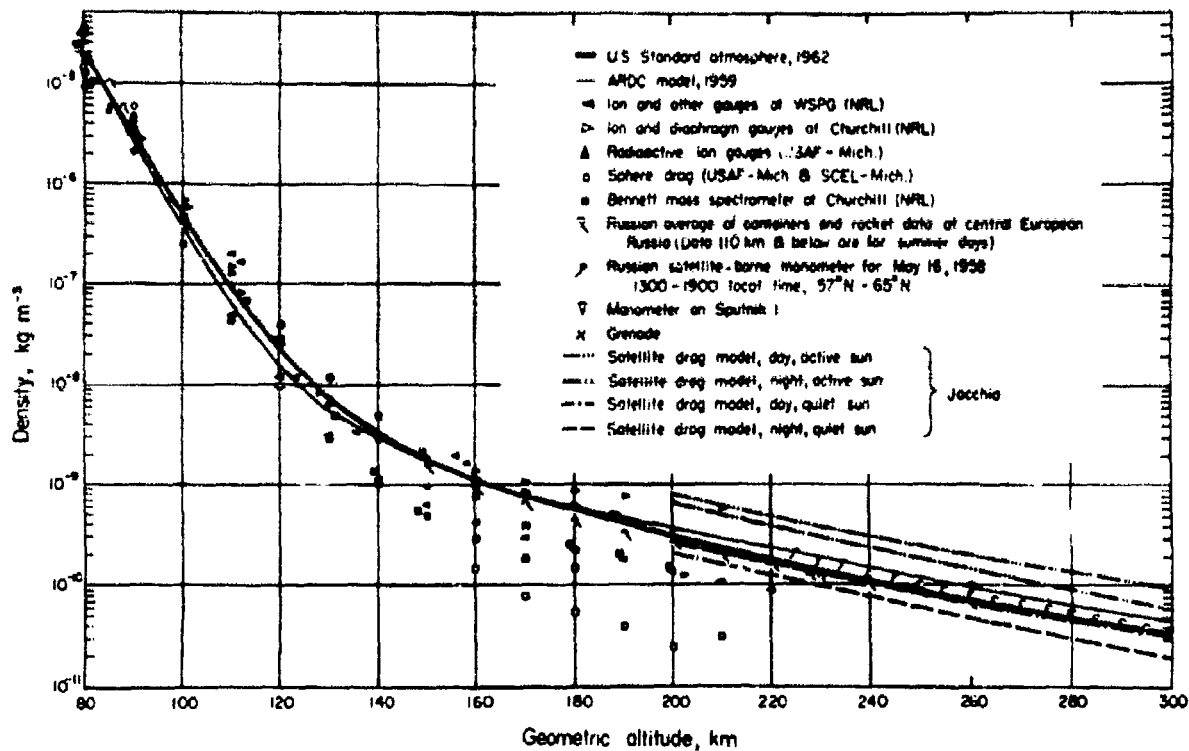


FIGURE 11.2.2(b).—Density of U.S. Standard Atmosphere, 1962 compared with ARDC Model Atmosphere, 1959 and with available data.

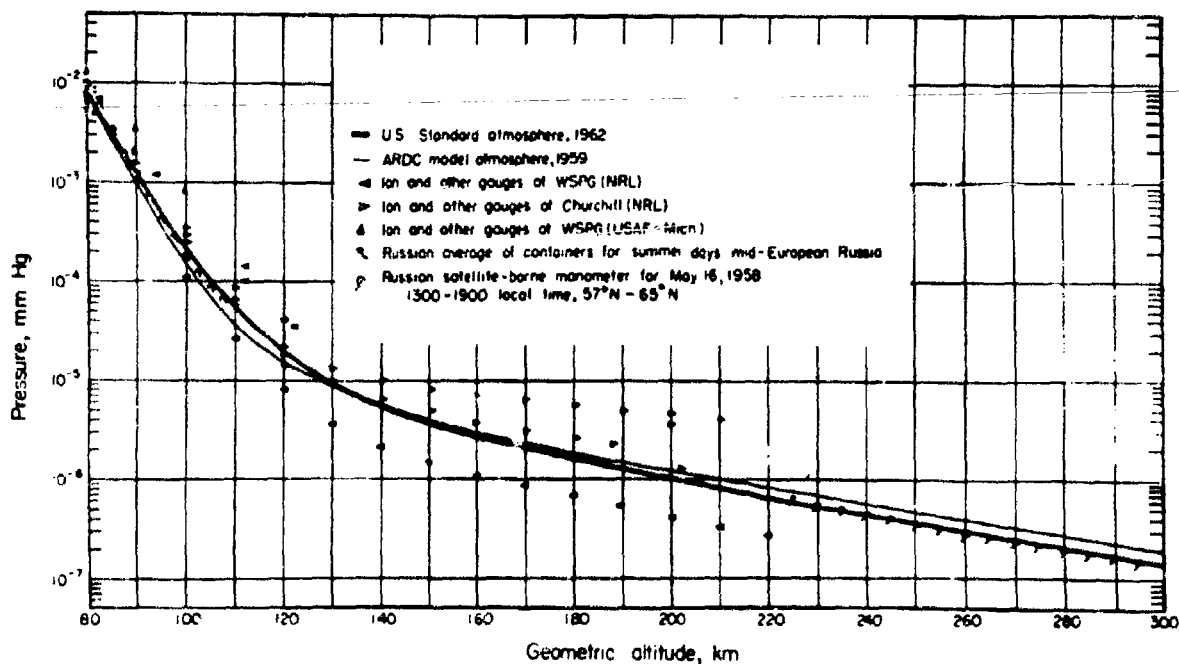


FIGURE 11.2.2(c).—Pressure of U.S. Standard Atmosphere, 1962 compared with ARDC Model Atmosphere, 1959 and with available data.

TABLE II.2.3(a).—TEMPERATURE DIFFERENCES BETWEEN THE PRESENT ATMOSPHERIC MODEL AND NICOLET'S 1961 MODEL

Z, km	*log μ	Temperature, °K		
		Present model	Nicolet	Difference
200	-12.480	1,236	900	336
300	-13.448	1,432	1,184	248
400	-14.188	1,487	1,249	239
500	-14.803	1,499	1,282	217
600	-15.334	1,506	1,316	190
700	-15.814	1,508	1,339	169

*For ρ in g/cm³.

that, to a fair approximation, the quasi-asymptotic temperature of 1,500° K of the present model corresponds to an asymptotic temperature of 1,300° K in Nicolet's model. Therefore, the Nicolet temperature of 1,300° K will be taken as representative of the present model and density corrections will be computed on the basis of Nicolet's model for temperatures other than 1,300° K.

Causes of variations.—Upper-atmospheric temperature variations, and the density variations that occur as a consequence thereof, can be divided into three categories:

- Variations caused by the variable position of the sun with respect to a given point above the earth's surface
- Fluctuations caused by variations in the extreme ultraviolet flux from the sun
- Fluctuations caused by variations in the corpuscular flux from the sun

Since observations indicate that through all these variations the temperature above 300 km remains, to a first approximation, rather independent of height, it must be assumed that most of the heating, both electromagnetic and corpuscular, occurs at heights below 300 km. The variations under (a) are usually referred to as the diurnal effect (refs. 36 to 38) and probably result from heat generated by absorption of ultraviolet radiation (ref. 39).

The diurnal bulge.—The maximum temperature seems to occur at a point on the globe about 30° eastward in longitude from the subsolar point. This is the center of the "diurnal bulge." (See refs. 35 and 40.) At this point, the temperature is about 40 percent higher than that at the point of minimum, in the dark hemisphere. Although the decrease in temperature from the center of the diurnal bulge outward is almost certainly not axially symmetric, a good approximation can be obtained by assuming that it is. If T_N denotes the minimum nighttime temperature, the temperature T at an angular distance ψ' from the center of the bulge can be represented by

$$T = T_N \left(1 + 0.4 \cos^2 \frac{\psi'}{2} \right) \quad (4 < \psi' < 6) \quad \text{II.2.3-(1)}$$

Because of the periodic change in latitude of the subsolar point, the day-to-night variation at any single point on the globe is dependent on the season. This seasonal effect, however, is automatically accounted for by equation II.2.3-(1).

Extreme ultraviolet flux.—The variations mentioned in the section *Causes of variations*, category (b), are generally erratic, although the 27-day period of the solar rotation can often be recognized in them over extended intervals (ref. 41). Among the various solar parameters, a good and quickly available index is the decimetric flux from the sun (refs. 36 and 42), which apparently varies in the same general manner as the extreme ultraviolet solar emission. Under constraints of time intervals of a few months, it is found that variations ΔT_N in the nighttime temperature are proportional to variations ΔF_{10} in the daily means F_{10} of the 10.7-cm solar flux measured by the National Research Council, Ottawa, Canada. When F_{10} is expressed in units of 10^{-22} watts m⁻²/(cycle sec⁻¹), then

$$\Delta T_N = 2.5 \Delta F_{10} \quad \text{II.2.3-(2)}$$

Corpuscular effects.—The corpuscular heating referred to under *Causes of variations*, category (c), manifests itself in a semiannual variation (refs. 43 and 44) superimposed on a slow fluctuation with the 11-year solar cycle (ref. 35). In addition, there are short-lived, spasmodic perturbations that parallel magnetic storms both in duration and intensity (ref. 45). The slow variations may be related to a "solar wind," which would provide a smooth background for the more violent corpuscular storms.

If the decimetric solar flux F_{10} is smoothed by taking monthly means, a variation is obtained which correlates with the 11-year solar cycle. It is thus not a simple matter to separate the ultraviolet and the slow-varying corpuscular components of atmospheric heating over time intervals even as long as 1 or 2 years. On the other hand, since the form of the 11-year variation in the corpuscular heating is not sufficiently well known, the decimetric flux again appears to be a convenient parameter for representing this variation, provided it is used in the smoothed \bar{F}_{10} (monthly mean) form.

The semiannual oscillations have maxima around April 7 and October 7, in fair agreement with the semiannual oscillation in the geomagnetic indices K_p , C_p , and u . (See refs. 46 to 48.) Their amplitude varies with the solar cycle and can also be expressed as a function of \bar{F}_{10} . For lack of better information it is assumed that the oscillation is a sinusoidal function of time.

The contribution of ΔT_N of the solar wind to the

heating of the nighttime atmosphere can thus be written

$$\Delta_1 T_N = 2\Delta \bar{F}_{10} + 0.5 \bar{F}_{10} \cos \frac{2(t - \text{Apr. 7})}{365} \quad \text{II.2.3-(3)}$$

Magnetically correlated effects.—During magnetically perturbed days there seems to be a simultaneous increase in the temperature of the entire upper atmosphere proportional to the 3-hour geomagnetic index a_p , the coefficient of proportionality $\Delta T/\Delta a_p$ being of the order of 1.5° or even higher. (See ref 34.) The contribution $\Delta_1 T_N$ of corpuscular storms to the heating of the atmosphere can therefore be written as

$$\Delta_1 T_N = 1.5a_p \quad \text{II.2.3-(4)}$$

Summary.—In summary, the nighttime temperature (in $^\circ\text{K}$) can be computed from F_{10} , \bar{F}_{10} , and a_p as follows:

$$\begin{aligned} T_N &= \text{Constant} + \Delta_1 T_N + \Delta_2 T_N + \Delta_3 T_N \\ &= 1,025 + 2.5(F_{10} - 170) + 2.0(\bar{F}_{10} - 170) \\ &\quad + 0.5 \bar{F}_{10} \cos \frac{2(t - \text{Apr. 7})}{365} + 1.5a_p \quad \text{II.2.3-(5)} \end{aligned}$$

The maximum daytime temperature can be taken as $T_D = 1.4 T_N$, and the temperature T at intermediate points on the globe can be computed from equation II.2.3-(1).

Resulting density corrections can now be computed. Table II.2.3(b) gives these corrections to be applied to $\log_{10} \rho$ for various temperatures. It is to be noted, of course, that all the equations for computing the temperature are empirical and based on parameters F_{10} and a_p that are indirect indicators of the true energy source. Only a crude approximation can thus be expected from their use. A difficulty in practical applications may be the inevitable delay in obtaining information about the solar and geomagnetic parameters. Some degree of approximation can be achieved by ignoring the short-lived fluctuations—that is, by assuming that a_p is close to zero and by replacing F_{10} with an extrapolated value of \bar{F}_{10} from the curve of monthly means.

II.3 REPRESENTATIONS OF ATMOSPHERIC VARIABLES AS APPROXIMATE ANALYTIC FUNCTIONS OF ALTITUDE

For some applications of the standard atmosphere it is advantageous to have approximate representations of the density and other variables as analytic functions, in closed form, of the altitude. Such representations do not, for example, have the differentiability limitations induced by the polygonal form of the standard molecular-scale temperature profile. Furthermore, approximate finite mathematical formulas frequently afford a considerable advantage, for analytical and computational purposes, over the standard tables.

The method of approximate representation utilized in this section consists essentially of two parts. First, the molecular-scale temperature is approximated by a polynomial function of the geometric altitude; the criterion for this curve fit is that the integral of the squared error be a minimum. Second, this polynomial and a gravitational acceleration which is assumed to vary inversely as the square of the distance from the earth's center are used to integrate a form of the hydrostatic equation. As a result, the pressure and the density are obtained as analytic functions of the altitude. The approximate representations given here have been limited to the geometric altitude range of 0 to 200 km by considerations of accuracy and general utility.

The approximate polynomial expression for the molecular-scale temperature T_M is

$$T_M = a_0 + a_1 Z + a_2 Z^2 + \dots + a_n Z^n \quad \text{II.3-(1)}$$

where Z is the geometric altitude. The sets of coefficients $a_0, a_1, a_2, \dots, a_n$ are given in table II.3(a) for several values of the polynomial degree n . Accuracy comparisons are shown graphically in figure II.3(a).

The representations of the pressure P and the density ρ through the equations

$$\frac{P}{P_0} = \exp \left(-\frac{M_0}{R^*} \int_0^Z \frac{g}{T_M} dZ \right) \quad \text{II.3-(2)}$$

$$\frac{\rho}{\rho_0} = \frac{T_0}{T_M} \exp \left(-\frac{M_0}{R^*} \int_0^Z \frac{g}{T_M} dZ \right) \quad \text{II.3-(3)}$$

TABLE II.2.3(b).—CORRECTIONS TO $\log_{10} \rho$ FOR VARIOUS TOP-ATMOSPHERIC TEMPERATURES*

Z, km	Correction for T , $^\circ\text{K}$, of—									
	800	900	1,000	1,100	1,200	1,300	1,500	1,700	1,900	2,100
200	-0.26	-0.14	-0.05	-0.02	-0.01	0.00	+0.01	+0.01	0.00	0.00
300	-0.62	-0.40	-0.22	-0.13	-0.06	0.00	+0.08	+0.13	+0.17	+0.20
400	-0.92	-0.61	-0.37	-0.22	-0.10	0.00	+0.15	+0.27	+0.35	+0.41
500	-1.16	-0.80	-0.50	-0.30	-0.14	0.00	+0.22	+0.37	+0.49	+0.57
600	-1.36	-0.97	-0.62	-0.37	-0.17	0.00	+0.27	+0.47	+0.62	+0.74
700	-1.40	-1.07	-0.72	-0.44	-0.21	0.00	+0.32	+0.56	+0.75	+0.89

*Computed from Nicolet's 1961 model, reference 22.

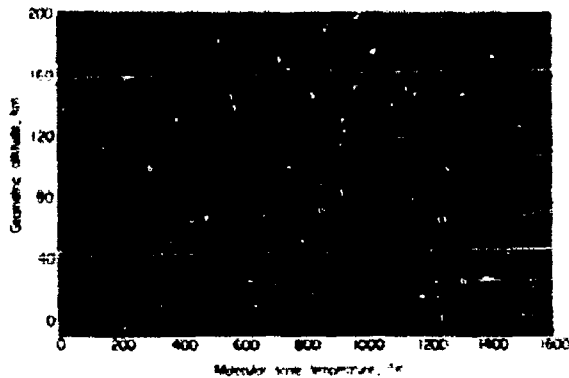


FIGURE 11.3(a).—Comparison of polynomial values with standard values of T_g .

require approximate analytic expressions for the quantity

$$\frac{M_0}{R^2} \int_0^z \frac{1}{T_M} dz \quad \text{II.3-(4)}$$

These analytic expressions, for several values of n , are given in table II.3(b). Pressures and densities computed therefrom are compared graphically with the standard-atmosphere values in figures II.3(b) and II.3(c).

More accurate approximations to the standard atmosphere than those presented herein are clearly possible at the expense of the smoothness of change of the atmospheric variables with altitude, the simplicity of analytic expression, and the computational precision necessary.

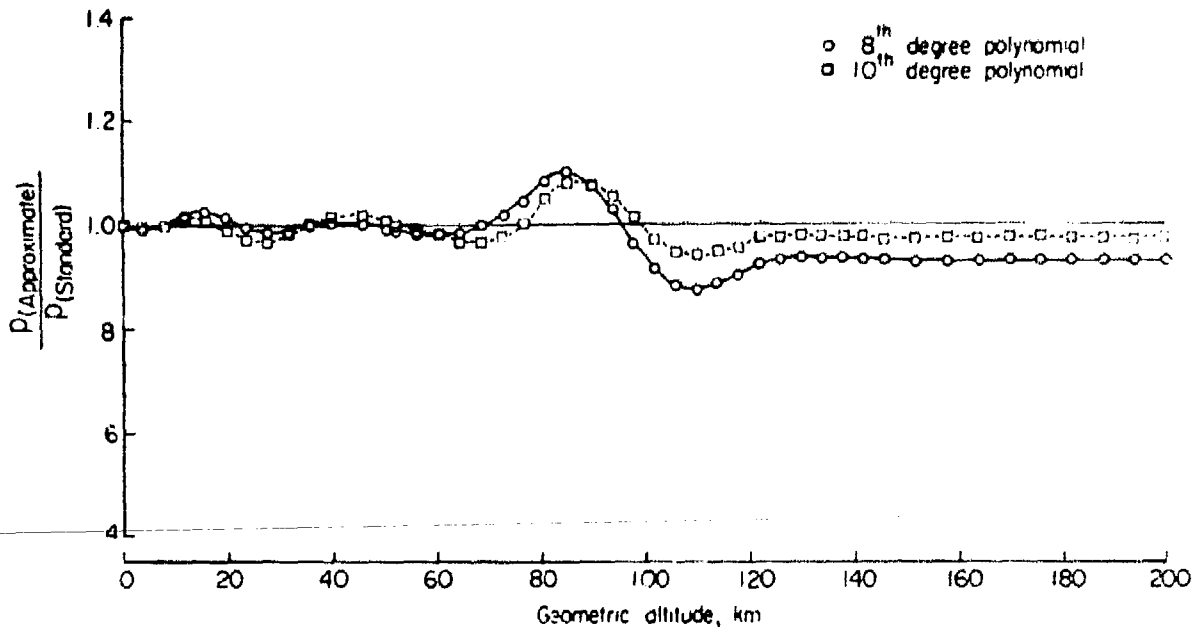


FIGURE 11.3(b).—Ratio of approximate pressure to standard pressure for various altitudes.

TABLE II.3(a).—DERIVED POLYNOMIAL COEFFICIENTS FOR POLYNOMIALS OF VARIOUS DEGREES

[Units: temperature, °K; length, km]

	Degree of polynomial, n					
	5	6	7	8	9	10
a_0	2.158247286×10^8	3.475660693×10^8	3.048459828×10^8	2.824793081×10^8	3.023172383×10^8	2.837492391×10^8
a_1	2.411481452	-2.825420010×10	-1.329257586×10	-5.240572992	-1.416764159×10	-3.955242007
a_2	$2.074750035 \times 10^{-4}$	1.385358828	$6.779491911 \times 10^{-4}$	$-1.266010595 \times 10^{-4}$	$8.553764861 \times 10^{-4}$	$-5.232974573 \times 10^{-4}$
a_3	$-1.862034731 \times 10^{-4}$	$-2.952861629 \times 10^{-4}$	$-7.100570823 \times 10^{-4}$	$1.873293836 \times 10^{-4}$	$-2.709269043 \times 10^{-4}$	$5.256403630 \times 10^{-4}$
a_4	$2.292350448 \times 10^{-4}$	$2.822892690 \times 10^{-4}$	$-2.609435606 \times 10^{-4}$	$-8.104746533 \times 10^{-4}$	$6.065248048 \times 10^{-4}$	$-1.832962145 \times 10^{-4}$
a_5	$-6.651502204 \times 10^{-4}$	$-1.207724386 \times 10^{-4}$	$1.012652115 \times 10^{-4}$	$6.050196408 \times 10^{-4}$	$-9.587865007 \times 10^{-4}$	$3.432295909 \times 10^{-4}$
a_6		$1.907015907 \times 10^{-4}$	$-6.116010646 \times 10^{-4}$	$-3.550182735 \times 10^{-4}$	$9.481497619 \times 10^{-4}$	$-3.930824139 \times 10^{-4}$
a_7			$1.145432322 \times 10^{-11}$	$1.014102927 \times 10^{-10}$	$-5.368751119 \times 10^{-10}$	$2.848535349 \times 10^{-9}$
a_8				$-1.124449619 \times 10^{-10}$	$1.583000644 \times 10^{-10}$	$-1.269919974 \times 10^{-10}$
a_9					$-1.883828451 \times 10^{-10}$	$3.161762924 \times 10^{-10}$
a_{10}						$-3.350145769 \times 10^{-12}$

TABLE II.3(b).—EXPANSION IN PARTIAL FRACTIONS AND EVALUATION OF THE INTEGRAL

[Units: temperature, °K; length, km; time, sec]

For $n=8$, the expansion of $\frac{\rho}{T^n}$ in partial fractions yields

$$\begin{aligned} \frac{\rho}{T^8} = & \frac{(Z+6356.77)^2(Z+21.680485)(Z-284.01768)(Z-29.885060Z+924.13600)(Z^2-186.52010Z+9665.2850)(Z^2-420.11363Z+45.675.466)}{-3.5241442 \times 10^{10}} \\ & - \frac{1.0902039 \times 10^{-7}}{(Z+6356.77)^2} + \frac{1.7870260 \times 10^{-7}}{(Z+21.680485)} - \frac{1.3949832 \times 10^{-7}}{(Z-284.01768)} + \frac{2.6655127 \times 10^{-7}}{(Z-29.885060Z+924.13600)} \\ & - \frac{3.2004620 \times 10^{-7}}{(Z^2-186.52010Z+9665.2850)} + \frac{1.1125784 \times 10^{-7}}{(Z^2-420.11363Z+45.675.466)} \end{aligned}$$

For $n=10$, the expansion of $\frac{\rho}{T^n}$ in partial fractions yields

$$\begin{aligned} \frac{\rho}{T^{10}} = & \frac{(Z+6356.77)^2(Z+14.002385)(Z-216.23225)(Z-26.414270Z+684.10967)(Z^2-137.47450Z+10.533.544)(Z^2-193.32352Z+10.180.367)(Z^2-384.32662Z+38.131.516)}{-1.1828508 \times 10^{10}} \\ & - \frac{2.5633341 \times 10^{-11}}{(Z+6356.77)^2} + \frac{1.4655396 \times 10^{-11}}{(Z+6356.77)} + \frac{1.4110834 \times 10^{-11}}{(Z+14.002385)} - \frac{3.8282910 \times 10^{-11}}{(Z-216.23225)} \\ & + \frac{3.0169957 \times 10^{-11}}{(Z-26.414270Z+684.10967)} + \frac{1.7101935 \times 10^{-11}}{(Z^2-137.47450Z+10.533.544)} \\ & - \frac{5.0784709 \times 10^{-11}}{(Z^2-193.32352Z+10.180.367)} + \frac{6.7777209 \times 10^{-11}}{(Z^2-384.32662Z+38.131.516)} \end{aligned}$$

For $n=8$, the integration of $\frac{\rho}{T^n}$ yields:

$$\begin{aligned} \int \frac{\rho}{T^8} dZ = & -1.0902039 \times 10^{-7} \left[\frac{1}{Z+6356.77} \right] + 1.7870260 \times 10^{-7} [\log. (Z+21.680485)] - 1.3949832 \times 10^{-7} [\log. (Z-284.01768)] \\ & + 1.3227563 \times 10^{-7} [\log. (Z^2-29.885060Z+924.13600)] + 8.3148074 \times 10^{-7} [\tan^{-1} (0.037777365Z-0.56467830)] - 1.6702310 \times 10^{-7} [\log. (Z^2-186.52010Z+9665.2850)] \\ & + 1.1637071 \times 10^{-7} [\tan^{-1} (0.038184987Z-3.6184094)] - 5.5628920 \times 10^{-7} [\log. (Z^2-420.11363Z+45.675.466)] + 1.2944040 \times 10^{-7} [\tan^{-1} (0.024387008Z-6.3327146)] \end{aligned}$$

For $n=10$, the integration of $\frac{\rho}{T^n}$ yields

$$\begin{aligned} \int \frac{\rho}{T^{10}} dZ = & -1.4655396 \times 10^{-11} \left[\frac{1}{Z+6356.77} \right] + 2.5633341 \times 10^{-11} [\log. (Z+6356.77)] + 1.4116834 \times 10^{-11} [\log. (Z+14.002385)] \\ & - 3.8282910 \times 10^{-11} [\log. (Z-216.23225)] + 1.5084978 \times 10^{-11} [\log. (Z^2-26.414270Z+684.10967)] + 6.7419880 \times 10^{-11} [\tan^{-1} (0.044294588Z-0.58500460)] \\ & + 8.5519675 \times 10^{-11} [\log. (Z^2-137.47450Z+10.533.544)] + 4.9863416 \times 10^{-11} [\tan^{-1} (0.013120767Z-0.90188546)] - 2.5392554 \times 10^{-11} [\log. (Z^2-193.32352Z+10.180.367)] \\ & + 1.1921879 \times 10^{-11} [\tan^{-1} (0.034567717Z-3.3413764)] - 3.3888604 \times 10^{-11} [\log. (Z^2-384.32662Z+38.131.516)] + 8.9812379 \times 10^{-11} [\tan^{-1} (0.028810210Z-5.5362664)] \end{aligned}$$

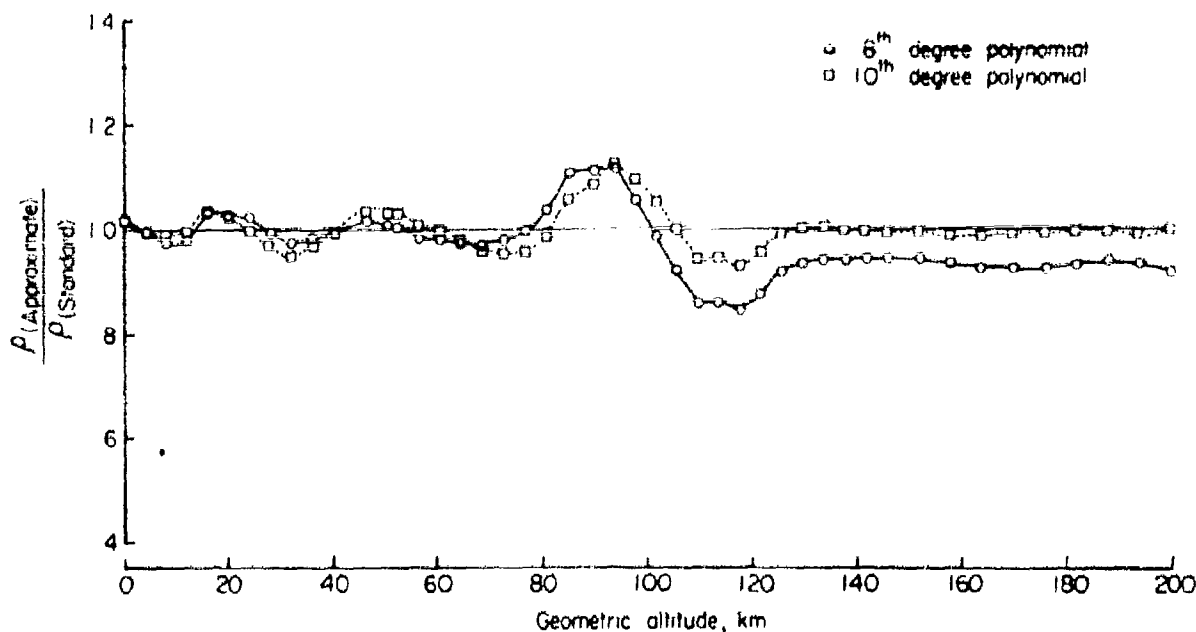


FIGURE II.3(c).—Ratio of approximate density to standard density for various altitudes.

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PART III
The Tables

PART III

The Tables

The main tables, contained in Part III of this document, have been computed by using the constants, conversion factors, and equations developed and discussed in Part I. Computation has been accomplished by means of electronic digital computers with selected check points validated by computation on a different machine. The automatic print-out from the machines has been directly reproduced here by a photographic process. Thus, every precaution possible has been taken to eliminate both computational errors and errors of transcription.

The tables are arranged in two principal categories:

Atmospheric properties as a function of altitude, metric units

Atmospheric properties as a function of altitude, English units

It is to be emphasized that on *left-hand* pages entry is made in terms of *geopotential* altitude. On *right-hand* pages the same quantities appear in terms of *geometric* altitude. This arrangement is followed to an altitude of 90 km. Above this altitude all entries are made in terms of *geometric* altitude only.

A secondary category of the main tables presents pressure as a function of altitude in various units.

For added convenience, the contents of Part III are repeated here:

Table	Page
I Temperature, pressure, and density. <i>Metric units</i>	35

Table	Page
II Acceleration due to gravity, specific weight, pressure scale height, number density, particle speed, collision frequency, mean free path, and molecular weight. <i>Metric units</i>	61
III Sound speed, coefficient of viscosity, kinematic viscosity, and thermal conductivity. <i>Metric units</i>	87
IV Temperature, pressure, and density. <i>English units</i>	107
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VI Sound speed, coefficient of viscosity, kinematic viscosity, and thermal conductivity. <i>English units</i>	191
VII Geopotential altitude in meters as a function of pressure in millibars	225
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Table I
TEMPERATURE, PRESSURE, AND DENSITY
Metric Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE I
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
h , m	Z , m	T , °K	t , °C	T_M , °K	P , mb	P , mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
-5000	-4999	320.650	47.500	320.650	1.77687 + 3	1.33276 + 3	1.75363 + 0	1.9305 + 0	1.9759 + 0
-4950	-4949	320.325	47.175	320.325	1.76743	1.32568	1.74431	1.9227	1.9641
-4900	-4899	320.000	46.850	320.000	1.75802	1.31862	1.73503	1.9139	1.9556
-4850	-4849	319.675	46.525	319.675	1.74866	1.31160	1.72570	1.9056	1.9473
-4800	-4799	319.350	46.200	319.350	1.73935	1.30461	1.71659	1.8974	1.9389
-4750	-4749	319.025	45.875	319.025	1.73005	1.29764	1.70743	1.8892	1.9302
-4700	-4699	318.700	45.550	318.700	1.72081	1.29071	1.69830	1.8810	1.9215
-4650	-4649	318.375	45.225	318.375	1.71160	1.28381	1.68922	1.8728	1.9128
-4600	-4599	318.050	44.900	318.050	1.70241	1.27693	1.68018	1.8647	1.9041
-4550	-4549	317.725	44.575	317.725	1.69332	1.27009	1.67117	1.8566	1.8954
-4500	-4499	317.400	44.250	317.400	1.68423 + 3	1.26328 + 3	1.66221 + 0	1.8486 + 0	1.8867 + 0
-4450	-4449	317.075	43.925	317.075	1.67519	1.25649	1.65328	1.8405	1.8782
-4400	-4399	316.750	43.600	316.750	1.66618	1.24974	1.64439	1.8325	1.8699
-4350	-4349	316.425	43.275	316.425	1.65722	1.24302	1.63555	1.8245	1.8616
-4300	-4299	316.100	42.950	316.100	1.64829	1.23632	1.62674	1.8166	1.8532
-4250	-4249	315.775	42.625	315.775	1.63940	1.22965	1.61796	1.8086	1.8448
-4200	-4199	315.450	42.300	315.450	1.63055	1.22302	1.60923	1.8007	1.8364
-4150	-4149	315.125	41.975	315.125	1.62174	1.21641	1.60054	1.7928	1.8280
-4100	-4099	314.800	41.650	314.800	1.61297	1.20983	1.59188	1.7850	1.8197
-4050	-4049	314.475	41.325	314.475	1.60426	1.20328	1.58326	1.7771	1.8113
-4000	-3999	314.150	41.000	314.150	1.59554 + 3	1.19676 + 3	1.57468 + 0	1.7693 + 0	1.8030 + 0
-3950	-3949	313.825	40.675	313.825	1.58689	1.19026	1.56614	1.7616	1.7948
-3900	-3899	313.500	40.350	313.500	1.57827	1.18380	1.55763	1.7538	1.7867
-3850	-3849	313.175	40.025	313.175	1.56969	1.17734	1.54916	1.7461	1.7786
-3800	-3799	312.850	39.700	312.850	1.56115	1.17096	1.54073	1.7384	1.7705
-3750	-3749	312.525	39.375	312.525	1.55264	1.16458	1.53234	1.7307	1.7624
-3700	-3699	312.200	39.050	312.200	1.54417	1.15823	1.52398	1.7231	1.7543
-3650	-3649	311.875	38.725	311.875	1.53574	1.15190	1.51566	1.7154	1.7462
-3600	-3599	311.550	38.400	311.550	1.52735	1.14561	1.50738	1.7078	1.7381
-3550	-3549	311.225	38.075	311.225	1.51900	1.13934	1.49913	1.7003	1.7300
-3500	-3499	310.900	37.750	310.900	1.51068 + 3	1.13310 + 3	1.49092 + 0	1.6927 + 0	1.7218 + 0
-3450	-3449	310.575	37.425	310.575	1.50240	1.12689	1.48275	1.6852	1.7137
-3400	-3399	310.250	37.100	310.250	1.49415	1.12071	1.47461	1.6777	1.7056
-3350	-3349	309.925	36.775	309.925	1.48594	1.11455	1.46651	1.6703	1.6975
-3300	-3299	309.600	36.450	309.600	1.47777	1.10842	1.45845	1.6628	1.6894
-3250	-3249	309.275	36.125	309.275	1.46964	1.10232	1.45042	1.6554	1.6813
-3200	-3199	308.950	35.800	308.950	1.46156	1.09624	1.44242	1.6480	1.6733
-3150	-3149	308.625	35.475	308.625	1.45354	1.09020	1.43447	1.6406	1.6653
-3100	-3099	308.300	35.150	308.300	1.44555	1.08417	1.42655	1.6333	1.6573
-3050	-3049	307.975	34.825	307.975	1.43766	1.07818	1.41866	1.6260	1.6493
-3000	-2999	307.650	34.500	307.650	1.42980 + 3	1.07227 + 3	1.41081 + 0	1.6187 + 0	1.6414 + 0
-2950	-2949	307.325	34.175	307.325	1.42198	1.06627	1.40299	1.6114	1.6335
-2900	-2899	307.000	33.850	307.000	1.41417	1.06036	1.39521	1.6042	1.6256
-2850	-2849	306.675	33.525	306.675	1.40638	1.05446	1.38747	1.5970	1.6177
-2800	-2799	306.350	33.200	306.350	1.39864	1.04861	1.37976	1.5898	1.6098
-2750	-2749	306.025	32.875	306.025	1.39092	1.04278	1.37208	1.5826	1.6019
-2700	-2699	305.700	32.550	305.700	1.38322	1.03697	1.36444	1.5755	1.5940
-2650	-2649	305.375	32.225	305.375	1.37551	1.03119	1.35683	1.5684	1.5861
-2600	-2599	305.050	31.900	305.050	1.36781	1.02544	1.34926	1.5613	1.5782
-2550	-2549	304.725	31.575	304.725	1.35990	1.01971	1.34172	1.5542	1.5703
-2500	-2499	304.400	31.250	304.400	1.35190 + 3	1.01401 + 3	1.33422 + 0	1.5472 + 0	1.5624 + 0
-2450	-2449	304.075	30.925	304.075	1.34433	1.00833	1.32675	1.5401	1.5545
-2400	-2399	303.750	30.600	303.750	1.33679	1.00268	1.31931	1.5332	1.5476
-2350	-2349	303.425	30.275	303.425	1.32929	9.97051 + 2	1.31191	1.5262	1.5407
-2300	-2299	303.100	29.950	303.100	1.32183	9.91451	1.30454	1.5192	1.5338
-2250	-2249	302.775	29.625	302.775	1.31439	9.85874	1.29721	1.5123	1.5269
-2200	-2199	302.450	29.300	302.450	1.30699	9.80327	1.28990	1.5054	1.5199
-2150	-2149	302.125	28.975	302.125	1.29963	9.74802	1.28263	1.4986	1.5130
-2100	-2099	301.800	28.650	301.800	1.29230	9.69304	1.27540	1.4917	1.5061
-2050	-2049	301.475	28.325	301.475	1.28500	9.63830	1.26820	1.4849	1.4992
-2000	-1999	301.150	28.000	301.150	1.27774 + 3	9.58382 + 2	1.26103 + 0	1.4781 + 0	1.4923 + 0
-1950	-1949	300.825	27.675	300.825	1.27051	9.52958	1.25389	1.4713	1.4854
-1900	-1899	300.500	27.350	300.500	1.26331	9.47559	1.24679	1.4645	1.4785
-1850	-1849	300.175	27.025	300.175	1.25614	9.42185	1.23972	1.4578	1.4716
-1800	-1799	299.850	26.700	299.850	1.24901	9.36836	1.23268	1.4511	1.4647
-1750	-1749	299.525	26.375	299.525	1.24191	9.31512	1.22567	1.4444	1.4578
-1700	-1699	299.200	26.050	299.200	1.23485	9.26212	1.21870	1.4378	1.4509
-1650	-1649	298.875	25.725	298.875	1.22781	9.20936	1.21176	1.4311	1.4440
-1600	-1599	298.550	25.400	298.550	1.22081	9.15685	1.20485	1.4245	1.4371
-1550	-1549	298.225	25.075	298.225	1.21384	9.10458	1.19797	1.4177	1.4302
-1500	-1499	297.900	24.750	297.900	1.20691 + 3	9.05255 + 2	1.19112 + 0	1.4114 + 0	1.4233 + 0
-1450	-1449	297.575	24.425	297.575	1.20000	9.00076	1.18431	1.4048	1.4164
-1400	-1399	297.250	24.100	297.250	1.19313	8.94921	1.17753	1.3983	1.4095
-1350	-1349	296.925	23.775	296.925	1.18629	8.89791	1.17078	1.3918	1.4026
-1300	-1299	296.600	23.450	296.600	1.17948	8.84684	1.16404	1.3853	1.3957
-1250	-1249	296.275	23.125	296.275	1.17270	8.79601	1.15737	1.3789	1.3888
-1200	-1199	295.950	22.800	295.950	1.16596	8.74541	1.15071	1.3725	1.3819
-1150	-1149	295.625	22.475	295.625	1.15925	8.69505	1.14409	1.3661	1.3750
-1100	-1099	295.300	22.150	295.300	1.15256	8.64493	1.13749	1.3597	1.3681
-1050	-1049	294.975	21.825	294.975	1.14591	8.59504	1.13093	1.3533	1.3612

TABLE I

GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
-5000	-5004	320.676	47.526	320.676	1.77762 + 3	1.33332 + 3	1.75437 + 0	1.9311 + 0	1.5764 + 0
-4950	-4954	320.350	47.200	320.350	1.76815	1.32622	1.74503	1.9228	1.5696
-4900	-4904	320.025	46.875	320.025	1.75873	1.31914	1.73573	1.9145	1.5629
-4850	-4854	319.699	46.549	319.699	1.74935	1.31212	1.72647	1.9062	1.5561
-4800	-4804	319.374	46.224	319.374	1.74001	1.30511	1.71725	1.8980	1.5494
-4750	-4754	319.048	45.898	319.048	1.73071	1.29814	1.70808	1.8898	1.5427
-4700	-4703	318.723	45.573	318.723	1.72145	1.29119	1.69894	1.8816	1.5360
-4650	-4653	318.397	45.247	318.397	1.71225	1.28420	1.68984	1.8734	1.5293
-4600	-4603	318.072	44.922	318.072	1.70305	1.27739	1.68078	1.8653	1.5227
-4550	-4553	317.746	44.596	317.746	1.69391	1.27054	1.67176	1.8572	1.5160
-4500	-4503	317.421	44.271	317.421	1.68481 + 3	1.26371 + 3	1.66276 + 0	1.8491 + 0	1.5094 + 0
-4450	-4453	317.095	43.945	317.095	1.67575	1.25692	1.65384	1.8410	1.5029
-4400	-4403	316.770	43.620	316.770	1.66673	1.25015	1.64494	1.8330	1.4963
-4350	-4353	316.444	43.294	316.444	1.65775	1.24342	1.63607	1.8250	1.4898
-4300	-4303	316.119	42.969	316.119	1.64881	1.23671	1.62725	1.8170	1.4833
-4250	-4253	315.793	42.643	315.793	1.63991	1.23003	1.61844	1.8091	1.4768
-4200	-4203	315.468	42.318	315.468	1.63104	1.22338	1.60972	1.8011	1.4703
-4150	-4153	315.143	41.993	315.143	1.62222	1.21677	1.60101	1.7933	1.4639
-4100	-4103	314.817	41.667	314.817	1.61344	1.21018	1.59234	1.7854	1.4575
-4050	-4053	314.492	41.342	314.492	1.60469	1.20362	1.58371	1.7775	1.4511
-4000	-4003	314.166	41.016	314.166	1.59598 + 3	1.19708 + 3	1.57511 + 0	1.7697 + 0	1.4447 + 0
-3950	-3952	313.841	40.691	313.841	1.58731	1.19058	1.56656	1.7619	1.4383
-3900	-3902	313.516	40.366	313.516	1.57868	1.18411	1.55804	1.7542	1.4320
-3850	-3852	313.190	40.040	313.190	1.57009	1.17766	1.54954	1.7464	1.4257
-3800	-3802	312.865	39.715	312.865	1.56153	1.17125	1.54111	1.7387	1.4194
-3750	-3752	312.539	39.389	312.539	1.55302	1.16486	1.53271	1.7311	1.4131
-3700	-3702	312.214	39.064	312.214	1.54454	1.15850	1.52434	1.7234	1.4069
-3650	-3652	311.889	38.739	311.889	1.53610	1.15217	1.51601	1.7158	1.4006
-3600	-3602	311.563	38.413	311.563	1.52769	1.14586	1.50772	1.7082	1.3944
-3550	-3552	311.238	38.088	311.238	1.51933	1.13959	1.49946	1.7006	1.3882
-3500	-3502	310.913	37.763	310.913	1.51100 + 3	1.13334 + 3	1.49124 + 0	1.6930 + 0	1.3821 + 0
-3450	-3452	310.587	37.437	310.587	1.50271	1.12712	1.48305	1.6855	1.3759
-3400	-3402	310.262	37.112	310.262	1.49445	1.12093	1.47491	1.6780	1.3698
-3350	-3352	309.936	36.786	309.936	1.48623	1.11477	1.46680	1.6705	1.3637
-3300	-3302	309.611	36.461	309.611	1.47805	1.10863	1.45872	1.6631	1.3576
-3250	-3252	309.286	36.136	309.286	1.46991	1.10252	1.45068	1.6556	1.3515
-3200	-3202	308.960	35.810	308.960	1.46180	1.09644	1.44268	1.6482	1.3455
-3150	-3152	308.635	35.485	308.635	1.45373	1.09038	1.43472	1.6409	1.3395
-3100	-3102	308.310	35.160	308.310	1.44569	1.08434	1.42679	1.6335	1.3335
-3050	-3051	307.985	34.835	307.985	1.43769	1.07836	1.41889	1.6262	1.3275
-3000	-3001	307.659	34.509	307.659	1.42973 + 3	1.07238 + 3	1.41103 + 0	1.6189 + 0	1.3216 + 0
-2950	-2951	307.334	34.184	307.334	1.42180	1.06644	1.40321	1.6114	1.3156
-2900	-2901	307.009	33.859	307.009	1.41391	1.06052	1.39542	1.6040	1.3097
-2850	-2851	306.683	33.533	306.683	1.40605	1.05463	1.38764	1.5972	1.3038
-2800	-2801	306.358	33.208	306.358	1.39823	1.04878	1.37995	1.5900	1.2979
-2750	-2751	306.033	32.883	306.033	1.39045	1.04292	1.37226	1.5828	1.2921
-2700	-2701	305.707	32.557	305.707	1.38270	1.03711	1.36461	1.5756	1.2862
-2650	-2651	305.382	32.232	305.382	1.37498	1.03132	1.35700	1.5685	1.2804
-2600	-2601	305.057	31.907	305.057	1.36730	1.02556	1.34942	1.5614	1.2746
-2550	-2551	304.732	31.582	304.732	1.35966	1.01983	1.34188	1.5544	1.2689
-2500	-2501	304.406	31.256	304.406	1.35205 + 3	1.01412 + 3	1.33436 + 0	1.5473 + 0	1.2631 + 0
-2450	-2451	304.081	30.931	304.081	1.34447	1.00844	1.32689	1.5403	1.2574
-2400	-2401	303.756	30.606	303.756	1.33693	1.00278	1.31945	1.5333	1.2517
-2350	-2351	303.431	30.281	303.431	1.32942	9.97148 + 2	1.31204	1.5263	1.2460
-2300	-2301	303.105	29.955	303.105	1.32195	9.91544	1.30464	1.5194	1.2403
-2250	-2251	302.780	29.630	302.780	1.31451	9.85944	1.29732	1.5124	1.2346
-2200	-2201	302.455	29.305	302.455	1.30711	9.80411	1.29001	1.5055	1.2290
-2150	-2151	302.130	28.980	302.130	1.29974	9.74883	1.28274	1.4987	1.2234
-2100	-2101	301.805	28.655	301.805	1.29240	9.69380	1.27550	1.4918	1.2178
-2050	-2051	301.479	28.329	301.479	1.28510	9.63902	1.26829	1.4850	1.2122
-2000	-2001	301.154	28.004	301.154	1.27783 + 3	9.58450 + 2	1.26112 + 0	1.4782 + 0	1.2067 + 0
-1950	-1951	300.829	27.679	300.829	1.27059	9.53023	1.25398	1.4714	1.2011
-1900	-1901	300.504	27.354	300.504	1.26339	9.47621	1.24687	1.4646	1.1956
-1850	-1851	300.178	27.028	300.178	1.25622	9.42243	1.23979	1.4579	1.1901
-1800	-1801	299.853	26.703	299.853	1.24908	9.36891	1.23275	1.4512	1.1846
-1750	-1751	299.528	26.378	299.528	1.24198	9.31563	1.22574	1.4445	1.1792
-1700	-1701	299.203	26.053	299.203	1.23491	9.26260	1.21874	1.4378	1.1737
-1650	-1651	298.878	25.728	298.878	1.22787	9.20981	1.21182	1.4312	1.1683
-1600	-1601	298.553	25.403	298.553	1.22087	9.15727	1.20490	1.4246	1.1629
-1550	-1551	298.227	25.077	298.227	1.21390	9.10497	1.19802	1.4180	1.1575
-1500	-1500	297.902	24.752	297.902	1.20696 + 3	9.05291 + 2	1.19117 + 0	1.4114 + 0	1.1522 + 0
-1450	-1451	297.577	24.427	297.577	1.20005	9.00110	1.18436	1.4049	1.1468
-1400	-1401	297.252	24.102	297.252	1.19317	8.94953	1.17757	1.3986	1.1415
-1350	-1351	296.927	23.777	296.927	1.18633	8.89820	1.17082	1.3921	1.1362
-1300	-1301	296.602	23.452	296.602	1.17952	8.84711	1.16409	1.3856	1.1309
-1250	-1251	296.277	23.127	296.277	1.17274	8.79626	1.15740	1.3789	1.1257
-1200	-1201	295.951	22.801	295.951	1.16599	8.74564	1.15074	1.3725	1.1204
-1150	-1151	295.626	22.476	295.626	1.15927	8.69526	1.14411	1.3661	1.1152
-1100	-1101	295.301	22.151	295.301	1.15259	8.64512	1.13752	1.3597	1.1100
-1050	-1051	294.976	21.826	294.976	1.14593	8.59521	1.13095	1.3534	1.1048

TABLE I.—Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
-1000	-1000	294.650	21.500	294.650	1.13929 + 3	8.54538 + 2	1.12439 + 0	1.3470 + 0	1.0996 + 0
-950	-950	294.325	21.175	294.325	1.13270	8.49596	1.11789	1.3407	1.0966
-900	-900	294.000	20.850	294.000	1.12616	8.44677	1.11142	1.3344	1.0933
-850	-850	293.675	20.525	293.675	1.11962	8.39781	1.10497	1.3281	1.0902
-800	-800	293.350	20.200	293.350	1.11312	8.34908	1.09856	1.3219	1.0871
-750	-750	293.025	19.875	293.025	1.10665	8.30057	1.09218	1.3157	1.0840
-700	-700	292.700	19.550	292.700	1.10022	8.25230	1.08583	1.3095	1.0809
-650	-650	292.375	19.225	292.375	1.09381	8.20425	1.07951	1.3033	1.0679
-600	-600	292.050	18.900	292.050	1.08744	8.15644	1.07322	1.2971	1.0580
-550	-550	291.725	18.575	291.725	1.08109	8.10884	1.06693	1.2910	1.0539
-500	-500	291.400	18.250	291.400	1.07477 + 3	8.06147 + 2	1.06072 + 0	1.2849 + 0	1.0498 + 0
-450	-450	291.075	17.925	291.075	1.06849	8.01433	1.05452	1.2788	1.0459
-400	-400	290.750	17.600	290.750	1.06223	7.96741	1.04834	1.2727	1.0420
-350	-350	290.425	17.275	290.425	1.05601	7.92071	1.04220	1.2667	1.0380
-300	-300	290.100	16.950	290.100	1.04981	7.87424	1.03608	1.2607	1.0341
-250	-250	289.775	16.625	289.775	1.04365	7.82798	1.03000	1.2547	1.0302
-200	-200	289.450	16.300	289.450	1.03751	7.78195	1.02394	1.2487	1.0263
-150	-150	289.125	15.975	289.125	1.03140	7.73613	1.01791	1.2427	1.0224
-100	-100	288.800	15.650	288.800	1.02532	7.69054	1.01191	1.2368	1.0185
-50	-50	288.475	15.325	288.475	1.01927	7.64514	1.00594	1.2309	1.0146
0	0	288.150	15.000	288.150	1.01325 + 3	7.60000 + 2	1.00000 + 0	1.2250 + 0	1.0000 + 0
50	50	287.825	14.675	287.825	1.00724	7.55505	0.994086 - 1	1.2191	0.99521 - 1
100	100	287.500	14.350	287.500	1.00129	7.51032	0.988200	1.2133	0.99046
150	150	287.175	14.025	287.175	0.99539 + 2	7.46581	0.982343	1.2075	0.98568
200	200	286.850	13.700	286.850	0.98953	7.42151	0.976514	1.2017	0.98094
250	250	286.525	13.375	286.525	0.98375	7.37742	0.970713	1.1959	0.97622
300	300	286.200	13.050	286.200	0.97792	7.33354	0.964940	1.1901	0.97151
350	350	285.875	12.725	285.875	0.97204	7.28988	0.959195	1.1844	0.96683
400	400	285.550	12.400	285.550	0.96611	7.24643	0.953477	1.1786	0.96216
450	450	285.225	12.075	285.225	0.960345	7.20318	0.947787	1.1729	0.95751
500	500	284.900	11.750	284.900	0.954608 + 2	7.16015 + 2	0.942125 - 1	1.1673 + 0	0.95287 - 1
550	550	284.575	11.425	284.575	0.948898	7.11732	0.936490	1.1616	0.94826
600	600	284.250	11.100	284.250	0.943216	7.07470	0.930882	1.1558	0.94365
650	650	283.925	10.775	283.925	0.937562	7.03229	0.925302	1.1504	0.93907
700	700	283.600	10.450	283.600	0.931955	6.99009	0.919749	1.1448	0.93451
750	750	283.275	10.125	283.275	0.926394	6.94809	0.914222	1.1392	0.92996
800	800	282.950	9.800	282.950	0.920783	6.90629	0.908723	1.1336	0.92542
850	850	282.625	9.475	282.625	0.915218	6.86470	0.903250	1.1281	0.92091
900	900	282.300	9.150	282.300	0.909700	6.82331	0.897805	1.1226	0.91641
950	950	281.975	8.825	281.975	0.904209	6.78213	0.892385	1.1171	0.91193
1000	1000	281.650	8.500	281.650	0.898745 + 2	6.74114 + 2	0.886993 - 1	1.1116 + 0	0.90746 - 1
1050	1050	281.325	8.175	281.325	0.893300	6.70034	0.881626	1.1062	0.90302
1100	1100	281.000	7.850	281.000	0.887897	6.65978	0.876286	1.1008	0.89858
1150	1150	280.675	7.525	280.675	0.882513	6.61939	0.870973	1.0954	0.89417
1200	1200	280.350	7.200	280.350	0.877155	6.57921	0.865685	1.0900	0.88977
1250	1250	280.025	6.875	280.025	0.871824	6.53922	0.860423	1.0846	0.88539
1300	1300	279.700	6.550	279.700	0.866519	6.49943	0.855188	1.0793	0.88102
1350	1350	279.375	6.225	279.375	0.861240	6.45983	0.849978	1.0739	0.87668
1400	1400	279.050	5.900	279.050	0.855987	6.42043	0.844794	1.0686	0.87234
1450	1450	278.725	5.575	278.725	0.850761	6.38123	0.839635	1.0633	0.86803
1500	1500	278.400	5.250	278.400	0.845560 + 2	6.34222 + 2	0.834502 - 1	1.0581 + 0	0.86373 - 1
1550	1550	278.075	4.925	278.075	0.840384	6.30340	0.829395	1.0528	0.85945
1600	1600	277.750	4.600	277.750	0.835235	6.26478	0.824313	1.0474	0.85518
1650	1650	277.425	4.275	277.425	0.830111	6.22634	0.819256	1.0424	0.85093
1700	1700	277.100	3.950	277.100	0.825013	6.18810	0.814224	1.0372	0.84669
1750	1750	276.775	3.625	276.775	0.819939	6.15005	0.809217	1.0320	0.84248
1800	1801	276.450	3.300	276.450	0.814892	6.11219	0.804236	1.0269	0.83827
1850	1851	276.125	2.975	276.125	0.809869	6.07452	0.800279	1.0218	0.83409
1900	1901	275.800	2.650	275.800	0.804872	6.03703	0.795347	1.0166	0.82992
1950	1951	275.475	2.325	275.475	0.799899	5.99974	0.790439	1.0114	0.82576
2000	2001	275.150	2.000	275.150	7.94952 + 2	5.96263 + 2	7.86556 - 1	1.0065 + 0	8.2162 - 1
2050	2051	274.825	1.675	274.825	7.90029	5.92570	7.78698	1.0014	8.1750
2100	2101	274.500	1.350	274.500	7.85131	5.88897	7.74864	0.9964 - 1	8.1340
2150	2151	274.175	1.025	274.175	7.80257	5.85241	7.70054	0.99140	8.0930
2200	2201	273.850	0.700	273.850	7.75409	5.81604	7.65269	0.98641	8.0523
2250	2251	273.525	0.375	273.525	7.70584	5.77986	7.60507	0.98143	8.0117
2300	2301	273.200	0.050	273.200	7.65784	5.74385	7.55770	0.97648	7.9713
2350	2351	272.875	-0.275	272.875	7.61008	5.70803	7.51057	0.97155	7.9310
2400	2401	272.550	-0.600	272.550	7.56254	5.67239	7.46367	0.96663	7.8909
2450	2451	272.225	-0.925	272.225	7.51529	5.63693	7.41701	0.96174	7.8509
2500	2501	271.900	-1.250	271.900	7.46825 + 2	5.60145 + 2	7.37059 - 1	0.95686 - 1	7.8111 - 1
2550	2551	271.575	-1.575	271.575	7.42145	5.56655	7.32440	0.95200	7.7714
2600	2601	271.250	-1.900	271.250	7.37489	5.53162	7.27845	0.94716	7.7319
2650	2651	270.925	-2.225	270.925	7.32854	5.49688	7.23273	0.94234	7.6926
2700	2701	270.600	-2.550	270.600	7.28248	5.46231	7.18725	0.93754	7.6534
2750	2751	270.275	-2.875	270.275	7.23662	5.42791	7.14199	0.93276	7.6143
2800	2801	269.950	-3.200	269.950	7.19100	5.39370	7.09677	0.92799	7.5754
2850	2851	269.625	-3.525	269.625	7.14562	5.35965	7.05218	0.92325	7.5367
2900	2901	269.300	-3.850	269.300	7.10046	5.32579	7.00761	0.91852	7.4981
2950	2951	268.975	-4.175	268.975	7.05554	5.29209	6.96328	0.91381	7.4597

TABLE I.—Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
-1000	-1000	294.651	21.501	294.651	1.13931 + 3	8.54554 + 2	1.12441 + 0	1.3470 + 0	1.0996 + 0
-950	-950	294.326	21.176	294.326	1.13272	8.49410	1.11791	1.3407	1.0965
-900	-900	294.001	20.851	294.001	1.12616	8.44266	1.11143	1.3344	1.0933
-850	-850	293.676	20.526	293.676	1.11963	8.39122	1.10499	1.3281	1.0902
-800	-800	293.351	20.201	293.351	1.11313	8.34017	1.09856	1.3219	1.0871
-750	-750	293.026	19.876	293.026	1.10666	8.28966	1.09219	1.3157	1.0740
-700	-700	292.700	19.550	292.700	1.10023	8.23932	1.08584	1.3095	1.0699
-650	-650	292.375	19.225	292.375	1.09382	8.18932	1.07952	1.3033	1.0659
-600	-600	292.050	18.900	292.050	1.08744	8.13949	1.07322	1.2971	1.0589
-550	-550	291.725	18.575	291.725	1.08110	8.08989	1.06694	1.2910	1.0559
-500	-500	291.400	18.250	291.400	1.07478 + 3	8.04151 + 2	1.06073 + 0	1.2848 + 0	1.0489 + 0
-450	-450	291.075	17.925	291.075	1.06849	8.01434	1.05452	1.2786	1.0459
-400	-400	290.750	17.600	290.750	1.06224	7.96743	1.04835	1.2727	1.0390
-350	-350	290.425	17.275	290.425	1.05601	7.92073	1.04220	1.2667	1.0360
-300	-300	290.100	16.950	290.100	1.04981	7.87425	1.03609	1.2607	1.0291
-250	-250	289.775	16.625	289.775	1.04365	7.82799	1.03000	1.2547	1.0262
-200	-200	289.450	16.300	289.450	1.03751	7.78195	1.02394	1.2487	1.0193
-150	-150	289.125	15.975	289.125	1.03140	7.73614	1.01791	1.2427	1.0165
-100	-100	288.800	15.650	288.800	1.02532	7.69054	1.01191	1.2368	1.0096
-50	-50	288.475	15.325	288.475	1.01927	7.64514	1.00594	1.2309	1.0068
0	0	288.150	15.000	288.150	1.01325 + 3	7.60000 + 2	1.00000 + 0	1.2250 + 0	1.0000 + 0
50	50	287.825	14.675	287.825	1.00726	7.55505	9.94084 - 1	1.2191	9.9521 - 1
100	100	287.500	14.350	287.500	1.00129	7.51032	9.88201	1.2133	9.9044
150	150	287.175	14.025	287.175	9.95340 + 2	7.46581	9.82344	1.2075	9.8568
200	200	286.850	13.700	286.850	9.89454	7.42151	9.76515	1.2017	9.8094
250	250	286.525	13.375	286.525	9.83574	7.37743	9.70714	1.1959	9.7622
300	300	286.200	13.050	286.200	9.77727	7.33354	9.64942	1.1901	9.7152
350	350	285.875	12.725	285.875	9.71906	7.28990	9.59197	1.1844	9.6683
400	400	285.550	12.400	285.550	9.66114	7.24645	9.53480	1.1786	9.6216
450	450	285.225	12.075	285.225	9.60369	7.20321	9.47791	1.1729	9.5751
500	500	284.900	11.750	284.900	9.54612 + 2	7.16018 + 2	9.42129 - 1	1.1673 + 0	9.5280 - 1
550	550	284.575	11.425	284.575	9.48890	7.11736	9.36495	1.1616	9.4826
600	600	284.250	11.100	284.250	9.43223	7.07475	9.30889	1.1560	9.4366
650	650	283.925	10.775	283.925	9.37570	7.03235	9.25309	1.1504	9.3908
700	700	283.600	10.450	283.600	9.31944	6.99015	9.19757	1.1448	9.3451
750	750	283.276	10.126	283.276	9.26346	6.94816	9.14232	1.1392	9.2996
800	800	282.951	9.801	282.951	9.20775	6.90638	9.08734	1.1337	9.2543
850	850	282.626	9.476	282.626	9.15231	6.86480	9.03263	1.1281	9.2092
900	900	282.301	9.151	282.301	9.09714	6.82342	8.97818	1.1226	9.1642
950	950	281.976	8.826	281.976	9.04225	6.78225	8.92401	1.1171	9.1194
1000	1000	281.651	8.501	281.651	8.98762 + 2	6.74127 + 2	8.87009 - 1	1.1117 + 0	9.0748 - 1
1050	1050	281.326	8.176	281.326	8.93327	6.70050	8.81445	1.1062	9.0303
1100	1100	281.001	7.851	281.001	8.87918	6.65993	8.76307	1.1008	8.9860
1150	1150	280.676	7.526	280.676	8.82535	6.61954	8.70995	1.0954	8.9419
1200	1200	280.351	7.201	280.351	8.77180	6.57939	8.65704	1.0900	8.8979
1250	1250	280.027	6.877	280.027	8.71850	6.53941	8.60449	1.0846	8.8541
1300	1300	279.702	6.552	279.702	8.66547	6.49964	8.55215	1.0793	8.8105
1350	1350	279.377	6.227	279.377	8.61270	6.46004	8.50000	1.0740	8.7670
1400	1400	279.052	5.902	279.052	8.56020	6.42048	8.44826	1.0687	8.7237
1450	1450	278.727	5.577	278.727	8.50795	6.38149	8.39669	1.0634	8.6806
1500	1500	278.402	5.252	278.402	8.45596 + 2	6.34249 + 2	8.34539 - 1	1.0581 + 0	8.6376 - 1
1550	1550	278.077	4.927	278.077	8.40423	6.30369	8.29435	1.0529	8.5940
1600	1600	277.753	4.603	277.753	8.35274	6.26509	8.24354	1.0476	8.5521
1650	1650	277.428	4.278	277.428	8.30155	6.22647	8.19299	1.0424	8.5096
1700	1700	277.103	3.953	277.103	8.25059	6.18845	8.14270	1.0372	8.4673
1750	1750	276.778	3.628	276.778	8.19988	6.15042	8.09265	1.0321	8.4252
1800	1799	276.453	3.303	276.453	8.14943	6.11258	8.04286	1.0269	8.3832
1850	1849	276.128	2.978	276.128	8.09923	6.07492	7.99332	1.0218	8.3413
1900	1899	275.804	2.654	275.804	8.04928	6.03744	7.94432	1.0167	8.2996
1950	1949	275.479	2.329	275.479	7.99958	6.00018	7.89498	1.0116	8.2581
2000	1999	275.154	2.004	275.154	7.95014 + 2	5.96309 + 2	7.84618 - 1	1.0066 + 0	8.2168 - 1
2050	2049	274.829	1.679	274.829	7.90094	5.92619	7.79762	1.0015	8.1756
2100	2099	274.505	1.355	274.505	7.85199	5.88947	7.74931	9.9648 - 1	8.1345
2150	2149	274.180	1.030	274.180	7.80328	5.85294	7.70124	9.9147	8.0936
2200	2199	273.855	0.705	273.855	7.75482	5.81659	7.65341	9.8648	8.0529
2250	2249	273.530	0.380	273.530	7.70661	5.78043	7.60583	9.8151	8.0124
2300	2299	273.205	0.055	273.205	7.65863	5.74445	7.55849	9.7656	7.9719
2350	2349	272.881	-0.269	272.881	7.61091	5.70865	7.51138	9.7163	7.9317
2400	2399	272.556	-0.594	272.556	7.56342	5.67303	7.46452	9.6672	7.8916
2450	2449	272.231	-0.919	272.231	7.51618	5.63760	7.41789	9.6183	7.8517
2500	2499	271.906	-1.244	271.906	7.46917 + 2	5.60234 + 2	7.37150 - 1	9.5695 - 1	7.8119 - 1
2550	2549	271.582	-1.568	271.582	7.42240	5.56726	7.32534	9.5210	7.7722
2600	2599	271.257	-1.893	271.257	7.37588	5.53234	7.27942	9.4726	7.7328
2650	2649	270.932	-2.218	270.932	7.32958	5.49764	7.23374	9.4245	7.6934
2700	2699	270.607	-2.543	270.607	7.28353	5.46310	7.18829	9.3765	7.6543
2750	2749	270.283	-2.867	270.283	7.23771	5.42873	7.14307	9.3287	7.6153
2800	2799	269.958	-3.192	269.958	7.19213	5.39454	7.09808	9.2811	7.5764
2850	2849	269.633	-3.517	269.633	7.14677	5.36052	7.05332	9.2337	7.5377
2900	2899	269.309	-3.841	269.309	7.10164	5.32668	7.00879	9.1864	7.4991
2950	2949	268.984	-4.166	268.984	7.05677	5.29301	6.96449	9.1394	7.4607

TABLE I.—Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
3000	3001	266.650	-6.500	266.650	7.01085 + 2	5.25057 + 2	6.91917 - 1	9.0912 - 1	7.4216 - 1
3050	3051	266.325	-6.825	266.325	6.90639	5.22522	6.87529	9.0665	7.3833
3100	3102	266.000	-7.150	266.000	6.82215	5.19204	6.83165	9.0420	7.3453
3150	3152	267.675	-5.475	267.675	6.87815	5.15903	6.78820	8.9516	7.3074
3200	3202	267.350	-5.800	267.350	6.83437	5.12620	6.74500	8.9035	7.2698
3250	3252	267.025	-6.125	267.025	6.79051	5.09353	6.70201	8.8595	7.2322
3300	3302	266.700	-6.450	266.700	6.74768	5.06103	6.65925	8.8137	7.1948
3350	3352	266.375	-6.775	266.375	6.70438	5.02870	6.61671	8.7687	7.1574
3400	3402	266.050	-7.100	266.050	6.66150	4.99654	6.57459	8.7224	7.1205
3450	3452	265.725	-7.425	265.725	6.61884	4.96454	6.53229	8.6774	7.0836
3500	3502	265.400	-7.750	265.400	6.57640 + 2	4.93271 + 2	6.49060 - 1	8.6323 - 1	7.0468 - 1
3550	3552	265.075	-8.075	265.075	6.53419	4.90104	6.44874	8.5874	7.0101
3600	3602	264.750	-8.400	264.750	6.49219	4.86954	6.40729	8.5427	6.9736
3650	3652	264.425	-8.725	264.425	6.45041	4.83821	6.36604	8.4981	6.9372
3700	3702	264.100	-9.050	264.100	6.40885	4.80703	6.32504	8.4536	6.9010
3750	3752	263.775	-9.375	263.775	6.36751	4.77602	6.28426	8.4094	6.8650
3800	3802	263.450	-9.700	263.450	6.32638	4.74518	6.24365	8.3656	6.8290
3850	3852	263.125	-10.025	263.125	6.28547	4.71449	6.20328	8.3217	6.7933
3900	3902	262.800	-10.350	262.800	6.24477	4.68394	6.16311	8.2781	6.7574
3950	3952	262.475	-10.675	262.475	6.20429	4.65340	6.12316	8.2346	6.7221
4000	4003	262.150	-11.000	262.150	6.16402 + 2	4.62339 + 2	6.08361 - 1	8.1913 - 1	6.6868 - 1
4050	4053	261.825	-11.325	261.825	6.12396	4.59335	6.04388	8.1482	6.6516
4100	4103	261.500	-11.650	261.500	6.08411	4.56346	6.00455	8.1052	6.6165
4150	4153	261.175	-11.975	261.175	6.04467	4.53373	5.96563	8.0624	6.5816
4200	4203	260.850	-12.300	260.850	6.00553	4.50416	5.92652	8.0198	6.5468
4250	4253	260.525	-12.625	260.525	5.96583	4.47474	5.88781	7.9774	6.5121
4300	4303	260.200	-12.950	260.200	5.92681	4.44548	5.84931	7.9351	6.4776
4350	4353	259.875	-13.275	259.875	5.88801	4.41637	5.81101	7.8930	6.4433
4400	4403	259.550	-13.600	259.550	5.84941	4.38742	5.77292	7.8511	6.4090
4450	4453	259.225	-13.925	259.225	5.81102	4.35862	5.73503	7.8093	6.3750
4500	4503	258.900	-14.250	258.900	5.77283 + 2	4.32998 + 2	5.69734 - 1	7.7677 - 1	6.3410 - 1
4550	4553	258.575	-14.575	258.575	5.73484	4.30168	5.65985	7.7263	6.3072
4600	4603	258.250	-14.900	258.250	5.69706	4.27314	5.62256	7.6851	6.2735
4650	4653	257.925	-15.225	257.925	5.65948	4.24484	5.58547	7.6440	6.2400
4700	4703	257.600	-15.550	257.600	5.62209	4.21692	5.54858	7.6031	6.2066
4750	4754	257.275	-15.875	257.275	5.58491	4.18903	5.51188	7.5624	6.1734
4800	4804	256.950	-16.200	256.950	5.54793	4.16129	5.47538	7.5218	6.1402
4850	4854	256.625	-16.525	256.625	5.51115	4.13370	5.43908	7.4814	6.1072
4900	4904	256.300	-16.850	256.300	5.47457	4.10624	5.40298	7.4411	6.0744
4950	4954	255.975	-17.175	255.975	5.43818	4.07897	5.36704	7.4011	6.0417
5000	5004	255.650	-17.500	255.650	5.40199 + 2	4.05182 + 2	5.33135 - 1	7.3612 - 1	6.0091 - 1
5050	5054	255.325	-17.825	255.325	5.36599	4.02462	5.29582	7.3214	5.9767
5100	5104	255.000	-18.150	255.000	5.33019	3.99797	5.26049	7.2818	5.9444
5150	5154	254.675	-18.475	254.675	5.29458	3.97124	5.22534	7.2424	5.9122
5200	5204	254.350	-18.800	254.350	5.25916	3.94470	5.19039	7.2032	5.8801
5250	5254	254.025	-19.125	254.025	5.22394	3.91828	5.15563	7.1641	5.8482
5300	5304	253.700	-19.450	253.700	5.18891	3.89200	5.12105	7.1251	5.8164
5350	5354	253.375	-19.775	253.375	5.15407	3.86587	5.08667	7.0864	5.7848
5400	5405	253.050	-20.100	253.050	5.11941	3.83988	5.05247	7.0478	5.7533
5450	5455	252.725	-20.425	252.725	5.08495	3.81403	5.01846	7.0093	5.7219
5500	5505	252.400	-20.750	252.400	5.05063 + 2	3.78832 + 2	4.98463 - 1	6.9711 - 1	5.6907 - 1
5550	5555	252.075	-21.075	252.075	5.01659	3.76275	4.95099	6.9329	5.6595
5600	5605	251.750	-21.400	251.750	4.98269	3.73732	4.91753	6.8950	5.6285
5650	5655	251.425	-21.725	251.425	4.94897	3.71203	4.88425	6.8572	5.5977
5700	5705	251.100	-22.050	251.100	4.91544	3.68688	4.85118	6.8195	5.5670
5750	5755	250.775	-22.375	250.775	4.88209	3.66167	4.81825	6.7820	5.5364
5800	5805	250.450	-22.700	250.450	4.84893	3.63700	4.78552	6.7447	5.5059
5850	5855	250.125	-23.025	250.125	4.81595	3.61224	4.75297	6.7075	5.4755
5900	5905	249.800	-23.350	249.800	4.78315	3.58744	4.72060	6.6705	5.4453
5950	5954	249.475	-23.675	249.475	4.75053	3.56319	4.68841	6.6337	5.4152
6000	6004	249.150	-24.000	249.150	4.71810 + 2	3.53884 + 2	4.65640 - 1	6.5970 - 1	5.3853 - 1
6050	6054	248.825	-24.325	248.825	4.68584	3.51467	4.62456	6.5604	5.3554
6100	6104	248.500	-24.650	248.500	4.65376	3.49061	4.59291	6.5240	5.3257
6150	6154	248.175	-24.975	248.175	4.62186	3.46668	4.56142	6.4878	5.2962
6200	6204	247.850	-25.300	247.850	4.59016	3.44289	4.53011	6.4517	5.2667
6250	6254	247.525	-25.625	247.525	4.55859	3.41922	4.49898	6.4158	5.2374
6300	6304	247.200	-25.950	247.200	4.52722	3.39569	4.46802	6.3800	5.2082
6350	6354	246.875	-26.275	246.875	4.49602	3.37230	4.43723	6.3444	5.1791
6400	6404	246.550	-26.600	246.550	4.46500	3.34903	4.40662	6.3089	5.1501
6450	6457	246.225	-26.925	246.225	4.43415	3.32589	4.37617	6.2736	5.1213
6500	6507	245.900	-27.250	245.900	4.40348 + 2	3.30288 + 2	4.34590 - 1	6.2384 - 1	5.0926 - 1
6550	6557	245.575	-27.575	245.575	4.37298	3.28000	4.31579	6.2034	5.0640
6600	6607	245.250	-27.900	245.250	4.34264	3.25725	4.28584	6.1684	5.0356
6650	6657	244.925	-28.225	244.925	4.31248	3.23463	4.25609	6.1338	5.0072
6700	6707	244.600	-28.550	244.600	4.28249	3.21213	4.22649	6.0993	4.9790
6750	6757	244.275	-28.875	244.275	4.25267	3.18974	4.19704	6.0649	4.9509
6800	6807	243.950	-29.200	243.950	4.22302	3.16752	4.16779	6.0304	4.9229
6850	6857	243.625	-29.525	243.625	4.19351	3.14541	4.13849	5.9965	4.8951
6900	6907	243.300	-29.850	243.300	4.16421	3.12341	4.10974	5.9625	4.8674
6950	6958	242.975	-30.175	242.975	4.13506	3.10155	4.08098	5.9287	4.8397

TABLE I.—Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
3000	2999	268.659	-4.491	268.659	7.01211 + 2	5.25952 + 2	0.92092 - 1	0.0025 - 1	7.4225 - 1
3050	3049	268.335	-4.815	268.335	6.96768	5.22619	0.87657	0.0059	7.3844
3100	3099	268.010	-5.140	268.010	6.92349	5.19306	0.83295	0.0094	7.3464
3150	3148	267.685	-5.465	267.685	6.87922	5.16004	0.78936	0.0131	7.3084
3200	3198	267.360	-5.790	267.360	6.83577	5.12725	0.74638	0.0169	7.2710
3250	3248	267.034	-6.114	267.034	6.79224	5.09461	0.70346	0.0210	7.2335
3300	3298	266.711	-6.439	266.711	6.74897	5.06214	0.66071	0.0252	7.1961
3350	3348	266.386	-6.764	266.386	6.70590	5.02984	0.61821	0.0297	7.1589
3400	3398	266.062	-7.088	266.062	6.66305	4.99770	0.57592	0.0343	7.1219
3450	3448	265.737	-7.413	265.737	6.62043	4.96573	0.53388	0.0391	7.0849
3500	3498	265.413	-7.737	265.413	6.57803 + 2	4.93393 + 2	0.49201 - 1	0.0440 - 1	7.0482 - 1
3550	3548	265.088	-8.062	265.088	6.53584	4.90229	0.45039	0.0492	7.0112
3600	3598	264.763	-8.387	264.763	6.49390	4.87082	0.40898	0.0545	6.9751
3650	3648	264.439	-8.711	264.439	6.45214	4.83952	0.36778	0.0600	6.9388
3700	3698	264.114	-9.036	264.114	6.41064	4.80837	0.32681	0.0657	6.9024
3750	3748	263.789	-9.361	263.789	6.36933	4.77739	0.28609	0.0715	6.8660
3800	3798	263.465	-9.685	263.465	6.32845	4.74657	0.24569	0.0774	6.8307
3850	3848	263.140	-10.010	263.140	6.28737	4.71592	0.20551	0.0833	6.7959
3900	3898	262.816	-10.334	262.816	6.24671	4.68542	0.16503	0.0892	6.7593
3950	3948	262.491	-10.659	262.491	6.20627	4.65509	0.12511	0.0951	6.7239
4000	3997	262.166	-10.984	262.166	6.16604 + 2	4.62491 + 2	0.08541 - 1	0.1015 - 1	6.6885 - 1
4050	4047	261.842	-11.308	261.842	6.12602	4.59489	0.04591	0.1080	6.6534
4100	4097	261.517	-11.633	261.517	6.08621	4.56504	0.00643	0.1145	6.6183
4150	4147	261.193	-11.957	261.193	6.04662	4.53533	0.06755	0.0647	6.5835
4200	4197	260.868	-12.282	260.868	6.00723	4.50579	0.02867	0.0222	6.5487
4250	4247	260.543	-12.607	260.543	5.96805	4.47640	0.08901	0.0798	6.5141
4300	4297	260.219	-12.931	260.219	5.92908	4.44717	0.05154	0.0376	6.4796
4350	4347	259.894	-13.255	259.894	5.89031	4.41810	0.01329	0.0955	6.4453
4400	4397	259.570	-13.580	259.570	5.85175	4.38918	0.07525	0.0536	6.4111
4450	4447	259.245	-13.905	259.245	5.81340	4.36041	0.03738	0.0119	6.3771
4500	4497	258.921	-14.229	258.921	5.77525 + 2	4.33180 + 2	0.09973 - 1	0.07704 - 1	6.3432 - 1
4550	4547	258.596	-14.554	258.596	5.73731	4.30333	0.06228	0.0309	6.3094
4600	4597	258.272	-14.878	258.272	5.69957	4.27503	0.02503	0.0878	6.2758
4650	4647	257.947	-15.203	257.947	5.66202	4.24687	0.08798	0.0468	6.2423
4700	4697	257.623	-15.527	257.623	5.62468	4.21886	0.05113	0.0659	6.2089
4750	4747	257.298	-15.852	257.298	5.58755	4.19100	0.01468	0.0757	6.1757
4800	4797	256.974	-16.176	256.974	5.55061	4.16330	0.07802	0.0327	6.1426
4850	4847	256.649	-16.501	256.649	5.51384	4.13574	0.04176	0.0844	6.1097
4900	4897	256.325	-16.825	256.325	5.47732	4.10833	0.00570	0.0442	6.0769
4950	4947	256.000	-17.150	256.000	5.44097	4.08107	0.06982	0.0041	6.0442
5000	4996	255.676	-17.474	255.676	5.40482 + 2	4.05395 + 2	0.03415 - 1	0.0543 - 1	6.0117 - 1
5050	5046	255.351	-17.799	255.351	5.36887	4.02698	0.02966	0.0324	5.9793
5100	5096	255.027	-18.123	255.027	5.33311	4.00014	0.02437	0.0251	5.9470
5150	5146	254.702	-18.448	254.702	5.29754	3.97348	0.02227	0.0247	5.9149
5200	5196	254.378	-18.772	254.378	5.26217	3.94695	0.01935	0.0206	5.8829
5250	5246	254.053	-19.097	254.053	5.22698	3.92054	0.01583	0.0175	5.8510
5300	5296	253.729	-19.421	253.729	5.19199	3.89432	0.01240	0.0126	5.8192
5350	5346	253.404	-19.746	253.404	5.15719	3.86821	0.00895	0.0089	5.7876
5400	5396	253.080	-20.070	253.080	5.12258	3.84225	0.00556	0.0051	5.7562
5450	5445	252.755	-20.395	252.755	5.08814	3.81643	0.00212	0.0019	5.7248
5500	5495	252.431	-20.719	252.431	5.05393 + 2	3.79074 + 2	0.098784 - 1	0.09747 - 1	5.6934 - 1
5550	5545	252.106	-21.044	252.106	5.01998	3.76522	0.09544	0.0936	5.6625
5600	5595	251.782	-21.368	251.782	4.98602	3.73982	0.09202	0.0907	5.6316
5650	5645	251.458	-21.692	251.458	4.95235	3.71454	0.088759	0.0870	5.6008
5700	5695	251.133	-22.017	251.133	4.91884	3.68945	0.085453	0.08234	5.5701
5750	5745	250.809	-22.341	250.809	4.88555	3.66444	0.082166	0.07859	5.5395
5800	5795	250.484	-22.666	250.484	4.85243	3.63942	0.078898	0.07486	5.5091
5850	5845	250.160	-22.990	250.160	4.81949	3.61491	0.075647	0.07115	5.4788
5900	5895	249.836	-23.314	249.836	4.78673	3.59034	0.072414	0.06746	5.4486
5950	5945	249.511	-23.639	249.511	4.75413	3.56591	0.069199	0.06378	5.4186
6000	5994	249.187	-23.963	249.187	4.72174 + 2	3.54161 + 2	0.064001 - 1	0.06011 - 1	5.3887 - 1
6050	6044	248.862	-24.288	248.862	4.68954	3.51745	0.062822	0.05844	5.3589
6100	6094	248.538	-24.612	248.538	4.65750	3.49342	0.059660	0.05283	5.3292
6150	6144	248.214	-24.936	248.214	4.62544	3.46952	0.056516	0.04921	5.2997
6200	6194	247.889	-25.261	247.889	4.59349	3.44576	0.053389	0.04561	5.2703
6250	6244	247.565	-25.585	247.565	4.56164	3.42212	0.050272	0.04202	5.2410
6300	6294	247.241	-25.909	247.241	4.52981	3.39862	0.047187	0.03845	5.2118
6350	6344	246.916	-26.234	246.916	4.49807	3.37525	0.044112	0.03489	5.1828
6400	6394	246.592	-26.558	246.592	4.46643	3.35202	0.041055	0.03135	5.1539
6450	6443	246.267	-26.882	246.267	4.43488	3.32891	0.038014	0.02782	5.1251
6500	6493	245.943	-27.207	245.943	4.40343 + 2	3.30593 + 2	0.034991 - 1	0.02431 - 1	5.0964 - 1
6550	6543	245.619	-27.531	245.619	4.37208	3.28308	0.031984	0.02081	5.0679
6600	6593	245.294	-27.855	245.294	4.34079	3.26034	0.028995	0.01733	5.0394
6650	6643	244.970	-28.180	244.970	4.30954	3.23777	0.026022	0.01387	5.0111
6700	6693	244.646	-28.504	244.646	4.27831	3.21530	0.023066	0.01041	4.9830
6750	6743	244.322	-28.828	244.322	4.24709	3.19294	0.020126	0.00698	4.9549
6800	6793	243.997	-29.153	243.997	4.21587	3.17075	0.017204	0.00356	4.9270
6850	6843	243.673	-29.477	243.673	4.18467	3.14866	0.014297	0.00015	4.8992
6900	6893	243.349	-29.801	243.349	4.15347	3.12670	0.011408	0.00074	4.8715
6950	6942	243.024	-30.124	243.024	4.12227	3.10486	0.008534	0.00038	4.8439

TABLE I.—Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS.

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
7000	7000	242.650	-50.500	242.650	4.10407 + 2	3.07981 + 2	4.05238 - 1	5.8950 - 1	4.6122 - 1
7050	7050	242.325	-50.825	242.325	4.07725	3.05819	4.02393	5.8615	4.7809
7100	7100	242.000	-51.150	242.000	4.04859	3.03669	3.99565	5.8281	4.7576
7150	7150	241.675	-51.475	241.675	4.02009	3.01532	3.96752	5.7949	4.7305
7200	7200	241.350	-51.800	241.350	3.99170	2.99407	3.93950	5.7618	4.7035
7250	7250	241.025	-52.125	241.025	3.96359	2.97296	3.91176	5.7288	4.6766
7300	7300	240.700	-52.450	240.700	3.93550	2.95193	3.88411	5.6960	4.6498
7350	7350	240.375	-52.775	240.375	3.90773	2.93104	3.85663	5.6636	4.6231
7400	7400	240.050	-53.100	240.050	3.88004	2.91027	3.82930	5.6308	4.5966
7450	7450	239.725	-53.425	239.725	3.85251	2.88962	3.80213	5.5985	4.5702
7500	7500	239.400	-53.750	239.400	3.82514 + 2	2.86909 + 2	3.77512 - 1	5.5662 - 1	4.5439 - 1
7550	7550	239.075	-54.075	239.075	3.79782	2.84868	3.74826	5.5341	4.5177
7600	7600	238.750	-54.400	238.750	3.77087	2.82838	3.72154	5.5022	4.4916
7650	7650	238.425	-54.725	238.425	3.74399	2.80820	3.69501	5.4704	4.4656
7700	7700	238.100	-55.050	238.100	3.71722	2.78816	3.66861	5.4387	4.4398
7750	7750	237.775	-55.375	237.775	3.69063	2.76820	3.64237	5.4072	4.4140
7800	7800	237.450	-55.700	237.450	3.66419	2.74837	3.61628	5.3758	4.3884
7850	7850	237.125	-56.025	237.125	3.63791	2.72866	3.59036	5.3446	4.3629
7900	7900	236.800	-56.350	236.800	3.61178	2.70906	3.56455	5.3135	4.3375
7950	7950	236.475	-56.675	236.475	3.58580	2.68957	3.53891	5.2825	4.3122
8000	8010	236.150	-57.000	236.150	3.55996 + 2	2.67020 + 2	3.51382 - 1	5.2517 - 1	4.2871 - 1
8050	8060	235.825	-57.325	235.825	3.53430	2.65094	3.48808	5.2210	4.2620
8100	8110	235.500	-57.650	235.500	3.50876	2.63180	3.46269	5.1906	4.2371
8150	8160	235.175	-57.975	235.175	3.48340	2.61278	3.43765	5.1600	4.2123
8200	8211	234.850	-58.300	234.850	3.45817	2.59386	3.41295	5.1297	4.1875
8250	8261	234.525	-58.625	234.525	3.43309	2.57505	3.38820	5.0996	4.1629
8300	8311	234.200	-58.950	234.200	3.40816	2.55633	3.36360	5.0696	4.1384
8350	8361	233.875	-59.275	233.875	3.38338	2.53774	3.33913	5.0397	4.1140
8400	8411	233.550	-59.600	233.550	3.35876	2.51928	3.31482	5.0100	4.0898
8450	8461	233.225	-59.925	233.225	3.33425	2.50089	3.29065	4.9806	4.0656
8500	8511	232.900	-60.250	232.900	3.30990 + 2	2.48263 + 2	3.26662 - 1	4.9509 - 1	4.0415 - 1
8550	8562	232.575	-60.575	232.575	3.28570	2.46447	3.24273	4.9216	4.0176
8600	8612	232.250	-60.900	232.250	3.26164	2.44643	3.21898	4.8926	3.9938
8650	8662	231.925	-61.225	231.925	3.23772	2.42849	3.19538	4.8633	3.9700
8700	8712	231.600	-61.550	231.600	3.21394	2.41066	3.17191	4.8343	3.9464
8750	8762	231.275	-61.875	231.275	3.19031	2.39293	3.14859	4.8055	3.9229
8800	8812	230.950	-62.200	230.950	3.16682	2.37531	3.12540	4.7769	3.8995
8850	8862	230.625	-62.525	230.625	3.14346	2.35779	3.10234	4.7483	3.8762
8900	8912	230.300	-62.850	230.300	3.12025	2.34038	3.07945	4.7199	3.8530
8950	8963	229.975	-63.175	229.975	3.09718	2.32307	3.05668	4.6916	3.8299
9000	9013	229.650	-63.500	229.650	3.07424 + 2	2.30587 + 2	3.03404 - 1	4.6635 - 1	3.8069 - 1
9050	9063	229.325	-63.825	229.325	3.05144	2.28877	3.01154	4.6355	3.7830
9100	9113	229.000	-64.150	229.000	3.02878	2.27177	2.98918	4.6076	3.7613
9150	9163	228.675	-64.475	228.675	3.00626	2.25488	2.96695	4.5798	3.7396
9200	9213	228.350	-64.800	228.350	2.98387	2.23809	2.94485	4.5522	3.7180
9250	9263	228.025	-65.125	228.025	2.96162	2.22140	2.92289	4.5246	3.6966
9300	9314	227.700	-65.450	227.700	2.93950	2.20481	2.90106	4.4973	3.6752
9350	9364	227.375	-65.775	227.375	2.91751	2.18832	2.87936	4.4690	3.6540
9400	9414	227.050	-66.100	227.050	2.89566	2.17193	2.85780	4.4429	3.6328
9450	9464	226.725	-66.425	226.725	2.87394	2.15564	2.83636	4.4159	3.6088
9500	9514	226.400	-66.750	226.400	2.85236 + 2	2.13944 + 2	2.81506 - 1	4.3890 - 1	3.5829 - 1
9550	9564	226.075	-67.075	226.075	2.83090	2.12335	2.79388	4.3623	3.5610
9600	9615	225.750	-67.400	225.750	2.80958	2.10736	2.77284	4.3356	3.5393
9650	9665	225.425	-67.725	225.425	2.78838	2.09146	2.75192	4.3091	3.5177
9700	9715	225.100	-68.050	225.100	2.76732	2.07566	2.73113	4.2827	3.4961
9750	9765	224.775	-68.375	224.775	2.74638	2.05996	2.71047	4.2565	3.4747
9800	9815	224.450	-68.700	224.450	2.72558	2.04435	2.68994	4.2304	3.4534
9850	9865	224.125	-69.025	224.125	2.70490	2.02884	2.66953	4.2044	3.4321
9900	9915	223.800	-69.350	223.800	2.68435	2.01343	2.64924	4.1785	3.4110
9950	9966	223.475	-69.675	223.475	2.66392	1.99811	2.62909	4.1527	3.3900
10000	10016	223.150	-70.000	223.150	2.64362 + 2	1.98288 + 2	2.60905 - 1	4.1271 - 1	3.3690 - 1
10050	10066	222.825	-70.325	222.825	2.62343	1.96775	2.58914	4.1015	3.3482
10100	10116	222.500	-70.650	222.500	2.60340	1.95271	2.56936	4.0761	3.3275
10150	10166	222.175	-70.975	222.175	2.58348	1.93777	2.54969	4.0509	3.3068
10200	10216	221.850	-71.300	221.850	2.56367	1.92291	2.53015	4.0257	3.2863
10250	10267	221.525	-71.625	221.525	2.54390	1.90815	2.51073	4.0007	3.2658
10300	10317	221.200	-71.950	221.200	2.52424	1.89349	2.49143	3.9757	3.2453
10350	10367	220.875	-72.275	220.875	2.50461	1.87891	2.47225	3.9509	3.2253
10400	10417	220.550	-72.600	220.550	2.48500	1.86442	2.45319	3.9263	3.2051
10450	10467	220.225	-72.925	220.225	2.46550	1.85005	2.43425	3.9017	3.1851
10500	10517	219.900	-73.250	219.900	2.44613 + 2	1.83573 + 2	2.41533 - 1	3.8772 - 1	3.1651 - 1
10550	10568	219.575	-73.575	219.575	2.42684	1.82151	2.39672	3.8529	3.1452
10600	10618	219.250	-73.900	219.250	2.40765	1.80738	2.37814	3.8287	3.1255
10650	10668	218.925	-74.225	218.925	2.38863	1.79335	2.35967	3.8046	3.1058
10700	10718	218.600	-74.550	218.600	2.36963	1.77940	2.34131	3.7806	3.0862
10750	10768	218.275	-74.875	218.275	2.35084	1.76556	2.32308	3.7568	3.0668
10800	10818	217.950	-75.200	217.950	2.33250	1.75177	2.30494	3.7330	3.0476
10850	10869	217.625	-75.525	217.625	2.31375	1.73808	2.28695	3.7094	3.0281
10900	10919	217.300	-75.850	217.300	2.29512	1.72448	2.26905	3.6859	3.0089
10950	10969	216.975	-76.175	216.975	2.27610	1.71097	2.25127	3.6625	2.9898

TABLE I.—Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
7000	6992	242.700	-30.450	242.700	4.11052 + 2	3.08315 + 2	4.05677 - 1	5.9002 - 1	4.8165 - 1
7050	7042	242.374	-30.774	242.374	4.04176	3.06154	4.02834	5.8447	4.7991
7100	7092	242.051	-31.099	242.051	4.05812	3.04009	4.00012	5.8334	4.7410
7150	7142	241.727	-31.423	241.727	4.02466	3.01874	3.97204	5.8002	4.7338
7200	7192	241.403	-31.747	241.403	3.99434	2.99752	3.94411	5.7671	4.7079
7250	7242	241.079	-32.071	241.079	3.96423	2.97642	3.91434	5.7342	4.6810
7300	7292	240.754	-32.394	240.754	3.94024	2.95544	3.88873	5.7015	4.6545
7350	7342	240.430	-32.720	240.430	3.91245	2.93450	3.86128	5.6689	4.6277
7400	7392	240.104	-33.044	240.104	3.88479	2.91354	3.83399	5.6344	4.6012
7450	7441	239.782	-33.368	239.782	3.85730	2.89321	3.80686	5.6001	4.5748
7500	7491	239.457	-33.693	239.457	3.82994 + 2	2.87271 + 2	3.77888 - 1	5.5714 - 1	4.5485 - 1
7550	7541	239.133	-34.017	239.133	3.80279	2.85232	3.75308	5.5399	4.5224
7600	7591	238.809	-34.341	238.809	3.77577	2.83200	3.72839	5.5080	4.4963
7650	7641	238.485	-34.665	238.485	3.74890	2.81191	3.69988	5.4762	4.4704
7700	7691	238.161	-34.989	238.161	3.72219	2.79187	3.67352	5.4446	4.4446
7750	7741	237.836	-35.314	237.836	3.69564	2.77196	3.64731	5.4131	4.4189
7800	7790	237.512	-35.638	237.512	3.66924	2.75215	3.62125	5.3818	4.3933
7850	7840	237.188	-35.962	237.188	3.64299	2.73247	3.59535	5.3506	4.3679
7900	7890	236.864	-36.286	236.864	3.61689	2.71289	3.56960	5.3196	4.3425
7950	7940	236.540	-36.610	236.540	3.59095	2.69343	3.54399	5.2884	4.3173
8000	7990	236.215	-36.935	236.215	3.56514 + 2	2.67409 + 2	3.51854 - 1	5.2579 - 1	4.2921 - 1
8050	8040	235.891	-37.259	235.891	3.53952	2.65486	3.49323	5.2272	4.2671
8100	8090	235.567	-37.583	235.567	3.51403	2.63574	3.46807	5.1967	4.2422
8150	8140	235.243	-37.907	235.243	3.48868	2.61673	3.44304	5.1663	4.2174
8200	8189	234.919	-38.231	234.919	3.46349	2.59785	3.41820	5.1361	4.1927
8250	8239	234.595	-38.555	234.595	3.43845	2.57905	3.39355	5.1060	4.1682
8300	8289	234.270	-38.880	234.270	3.41355	2.56037	3.36891	5.0761	4.1437
8350	8339	233.946	-39.204	233.946	3.38880	2.54181	3.34448	5.0462	4.1194
8400	8389	233.622	-39.528	233.622	3.36419	2.52335	3.32020	5.0165	4.0951
8450	8439	233.298	-39.852	233.298	3.33973	2.50500	3.29604	4.9870	4.0710
8500	8489	232.974	-40.174	232.974	3.31541 + 2	2.48677 + 2	3.27208 - 1	4.9576 - 1	4.0470 - 1
8550	8539	232.650	-40.500	232.650	3.29124	2.46864	3.24820	4.9283	4.0231
8600	8589	232.326	-40.824	232.326	3.26721	2.45061	3.22449	4.8991	3.9993
8650	8638	232.001	-41.149	232.001	3.24333	2.43270	3.20092	4.8701	3.9756
8700	8688	231.677	-41.473	231.677	3.21958	2.41489	3.17748	4.8412	3.9520
8750	8738	231.353	-41.797	231.353	3.19598	2.39718	3.15419	4.8125	3.9285
8800	8788	231.029	-42.121	231.029	3.17252	2.37959	3.13103	4.7838	3.9052
8850	8838	230.705	-42.445	230.705	3.14920	2.36209	3.10802	4.7553	3.8819
8900	8888	230.381	-42.769	230.381	3.12602	2.34470	3.08514	4.7270	3.8588
8950	8937	230.057	-43.093	230.057	3.10297	2.32742	3.06239	4.6987	3.8357
9000	8987	229.733	-43.417	229.733	3.08007 + 2	2.31024 + 2	3.03979 - 1	4.6706 - 1	3.8128 - 1
9050	9037	229.409	-43.741	229.409	3.05730	2.29314	3.01732	4.6427	3.7899
9100	9087	229.085	-44.065	229.085	3.03467	2.27619	2.99498	4.6148	3.7672
9150	9137	228.760	-44.390	228.760	3.01217	2.25931	2.97276	4.5871	3.7446
9200	9187	228.436	-44.714	228.436	2.98981	2.24254	2.95071	4.5595	3.7220
9250	9237	228.112	-45.038	228.112	2.96759	2.22587	2.92878	4.5320	3.6996
9300	9286	227.788	-45.362	227.788	2.94550	2.20930	2.90708	4.5047	3.6773
9350	9336	227.464	-45.686	227.464	2.92354	2.19283	2.88531	4.4775	3.6551
9400	9386	227.140	-46.010	227.140	2.90172	2.17647	2.86377	4.4504	3.6330
9450	9436	226.816	-46.334	226.816	2.88002	2.16020	2.84236	4.4234	3.6110
9500	9486	226.492	-46.658	226.492	2.85844 + 2	2.14402 + 2	2.82109 - 1	4.3966 - 1	3.5891 - 1
9550	9536	226.168	-46.982	226.168	2.83704	2.12795	2.79994	4.3699	3.5673
9600	9586	225.844	-47.306	225.844	2.81574	2.11198	2.77892	4.3433	3.5456
9650	9635	225.520	-47.630	225.520	2.79457	2.09610	2.75803	4.3169	3.5240
9700	9685	225.196	-47.954	225.196	2.77353	2.08032	2.73726	4.2905	3.5025
9750	9735	224.872	-48.278	224.872	2.75262	2.06464	2.71663	4.2643	3.4811
9800	9785	224.548	-48.602	224.548	2.73184	2.04905	2.69612	4.2382	3.4598
9850	9835	224.224	-48.926	224.224	2.71119	2.03356	2.67573	4.2123	3.4386
9900	9885	223.900	-49.250	223.900	2.69066	2.01816	2.65548	4.1864	3.4175
9950	9935	223.576	-49.574	223.576	2.67024	2.00286	2.63534	4.1607	3.3965
10000	9984	223.252	-49.898	223.252	2.64999 + 2	1.98765 + 2	2.61533 - 1	4.1351 - 1	3.3756 - 1
10050	10034	222.928	-50.222	222.928	2.62984	1.97254	2.59545	4.1096	3.3548
10100	10084	222.604	-50.546	222.604	2.60981	1.95752	2.57568	4.0843	3.3341
10150	10134	222.280	-50.870	222.280	2.58991	1.94259	2.55604	4.0590	3.3135
10200	10184	221.956	-51.194	221.956	2.57013	1.92776	2.53652	4.0339	3.2930
10250	10233	221.632	-51.518	221.632	2.55048	1.91302	2.51713	4.0089	3.2726
10300	10283	221.308	-51.842	221.308	2.53094	1.89836	2.49785	3.9840	3.2523
10350	10333	220.984	-52.166	220.984	2.51153	1.88381	2.47869	3.9593	3.2321
10400	10383	220.660	-52.490	220.660	2.49224	1.86934	2.45965	3.9346	3.2119
10450	10433	220.336	-52.814	220.336	2.47307	1.85494	2.44073	3.9101	3.1919
10500	10483	220.013	-53.137	220.013	2.45402 + 2	1.84067 + 2	2.42193 - 1	3.8857 - 1	3.1720 - 1
10550	10533	219.689	-53.461	219.689	2.43509	1.82647	2.40325	3.8616	3.1522
10600	10582	219.365	-53.785	219.365	2.41628	1.81234	2.38468	3.8372	3.1324
10650	10632	219.041	-54.109	219.041	2.39759	1.79834	2.36624	3.8132	3.1128
10700	10682	218.717	-54.433	218.717	2.37901	1.78441	2.34790	3.7892	3.0933
10750	10732	218.393	-54.757	218.393	2.36055	1.77054	2.32968	3.7654	3.0738
10800	10782	218.069	-55.081	218.069	2.34221	1.75680	2.31158	3.7417	3.0545
10850	10832	217.745	-55.405	217.745	2.32398	1.74313	2.29359	3.7181	3.0352
10900	10881	217.421	-55.729	217.421	2.30587	1.72955	2.27572	3.6946	3.0160
10950	10931	217.097	-56.053	217.097	2.28788	1.71605	2.25796	3.6713	2.9970

TABLE I — Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
11000	11019	216.650	-56.500	216.650	2.26320 * 2	1.69754 * 2	2.28561 - 1	3.6397 - 1	2.9708 - 1
11100	11119	216.650	-56.500	216.650	2.22779	1.67098	2.19866	3.5822	2.9243
11200	11220	216.650	-56.500	216.650	2.19294	1.64444	2.11624	3.5262	2.8785
11300	11320	216.650	-56.500	216.650	2.15852	1.61791	2.13040	3.4710	2.8335
11400	11420	216.650	-56.500	216.650	2.12466	1.59137	2.09707	3.4167	2.7892
11500	11521	216.650	-56.500	216.650	2.09141	1.56484	2.06424	3.3633	2.7455
11600	11621	216.650	-56.500	216.650	2.05869	1.53830	2.03197	3.3104	2.7024
11700	11722	216.650	-56.500	216.650	2.02648	1.52013	2.00018	3.2589	2.6603
11800	11822	216.650	-56.500	216.650	1.99497	1.49435	1.96888	3.2079	2.6187
11900	11922	216.650	-56.500	216.650	1.96376	1.47294	1.93808	3.1577	2.5777
12000	12023	216.650	-56.500	216.650	1.93304 * 2	1.44990 * 2	1.90774 - 1	3.1083 - 1	2.5374 - 1
12100	12123	216.650	-56.500	216.650	1.90279	1.42721	1.87791	3.0596	2.4977
12200	12223	216.650	-56.500	216.650	1.87302	1.40488	1.84853	3.0118	2.4586
12300	12324	216.650	-56.500	216.650	1.84372	1.38290	1.81961	2.9647	2.4201
12400	12424	216.650	-56.500	216.650	1.81488	1.36127	1.79114	2.9183	2.3823
12500	12525	216.650	-56.500	216.650	1.78648	1.33997	1.76312	2.8726	2.3450
12600	12625	216.650	-56.500	216.650	1.75853	1.31901	1.73554	2.8277	2.3083
12700	12725	216.650	-56.500	216.650	1.73102	1.29837	1.70838	2.7834	2.2722
12800	12826	216.650	-56.500	216.650	1.70394	1.27804	1.68165	2.7399	2.2368
12900	12926	216.650	-56.500	216.650	1.67728	1.25806	1.65534	2.6970	2.2017
13000	13027	216.650	-56.500	216.650	1.65104 * 2	1.23838 * 2	1.62945 - 1	2.6548 - 1	2.1672 - 1
13100	13127	216.650	-56.500	216.650	1.62521	1.21900	1.60395	2.6133	2.1333
13200	13227	216.650	-56.500	216.650	1.59976	1.19993	1.57886	2.5724	2.0999
13300	13328	216.650	-56.500	216.650	1.57475	1.18116	1.55416	2.5322	2.0671
13400	13428	216.650	-56.500	216.650	1.55011	1.16268	1.52984	2.4925	2.0347
13500	13529	216.650	-56.500	216.650	1.52586	1.14449	1.50591	2.4535	2.0029
13600	13629	216.650	-56.500	216.650	1.50199	1.12658	1.48235	2.4152	1.9716
13700	13730	216.650	-56.500	216.650	1.47849	1.10894	1.45916	2.3774	1.9407
13800	13830	216.650	-56.500	216.650	1.45534	1.09161	1.43633	2.3402	1.9104
13900	13930	216.650	-56.500	216.650	1.43259	1.07453	1.41386	2.3036	1.8805
14000	14031	216.650	-56.500	216.650	1.41018 * 2	1.05772 * 2	1.39174 - 1	2.2675 - 1	1.8510 - 1
14100	14131	216.650	-56.500	216.650	1.38811	1.04117	1.36996	2.2321	1.8221
14200	14232	216.650	-56.500	216.650	1.36640	1.02488	1.34853	2.1971	1.7936
14300	14332	216.650	-56.500	216.650	1.34502	1.00885	1.32743	2.1628	1.7655
14400	14433	216.650	-56.500	216.650	1.32398	9.93044 * 1	1.30666	2.1289	1.7379
14500	14533	216.650	-56.500	216.650	1.30326	9.77527	1.28622	2.0956	1.7107
14600	14634	216.650	-56.500	216.650	1.28287	9.62234	1.26610	2.0628	1.6839
14700	14734	216.650	-56.500	216.650	1.26280	9.47179	1.24629	2.0304	1.6576
14800	14835	216.650	-56.500	216.650	1.24305	9.32361	1.22679	1.9988	1.6317
14900	14935	216.650	-56.500	216.650	1.22360	9.17774	1.20760	1.9675	1.6061
15000	15035	216.650	-56.500	216.650	1.20445 * 2	9.03415 * 1	1.18870 - 1	1.9367 - 1	1.5810 - 1
15100	15136	216.650	-56.500	216.650	1.18561	8.89281	1.17011	1.9064	1.5563
15200	15236	216.650	-56.500	216.650	1.16704	8.75368	1.15180	1.8764	1.5319
15300	15337	216.650	-56.500	216.650	1.14880	8.61672	1.13378	1.8474	1.5080
15400	15437	216.650	-56.500	216.650	1.13083	8.48191	1.11604	1.8183	1.4844
15500	15538	216.650	-56.500	216.650	1.11314	8.34921	1.09858	1.7899	1.4611
15600	15638	216.650	-56.500	216.650	1.09572	8.21859	1.08139	1.7619	1.4383
15700	15739	216.650	-56.500	216.650	1.07858	8.09001	1.06447	1.7343	1.4158
15800	15839	216.650	-56.500	216.650	1.06170	7.96344	1.04762	1.7072	1.3936
15900	15940	216.650	-56.500	216.650	1.04509	7.83885	1.03143	1.6805	1.3718
16000	16040	216.650	-56.500	216.650	1.02874 * 2	7.71621 * 1	1.01529 - 1	1.6542 - 1	1.3504 - 1
16100	16141	216.650	-56.500	216.650	1.01265	7.59549	9.99406 - 2	1.6283	1.3292
16200	16241	216.650	-56.500	216.650	9.96805 * 1	7.47665	9.83770	1.6028	1.3084
16300	16342	216.650	-56.500	216.650	9.851210	7.35968	9.68379	1.5778	1.2880
16400	16442	216.650	-56.500	216.650	9.73589	7.24454	9.53229	1.5531	1.2678
16500	16543	216.650	-56.500	216.650	9.62108	7.13119	9.38315	1.5288	1.2480
16600	16643	216.650	-56.500	216.650	9.50673	7.01963	9.23635	1.5049	1.2285
16700	16744	216.650	-56.500	216.650	9.39281	6.90980	9.09185	1.4813	1.2092
16800	16845	216.650	-56.500	216.650	9.28018	6.80170	8.94960	1.4581	1.1903
16900	16945	216.650	-56.500	216.650	9.16811	6.69528	8.80958	1.4353	1.1717
17000	17046	216.650	-56.500	216.650	9.05666 * 1	6.59053 * 1	8.67176 - 2	1.4129 - 1	1.1534 - 1
17100	17146	216.650	-56.500	216.650	8.94699	6.48742	8.53809	1.3908	1.1353
17200	17247	216.650	-56.500	216.650	8.83853	6.38593	8.40254	1.3690	1.1176
17300	17347	216.650	-56.500	216.650	8.73107	6.28602	8.27108	1.3476	1.1001
17400	17448	216.650	-56.500	216.650	8.62465	6.18767	8.14168	1.3265	1.0829
17500	17548	216.650	-56.500	216.650	8.51929	6.09087	8.01430	1.3058	1.0659
17600	17649	216.650	-56.500	216.650	8.41496	5.99557	7.88891	1.2851	1.0492
17700	17749	216.650	-56.500	216.650	8.31164	5.90177	7.76549	1.2652	1.0328
17800	17850	216.650	-56.500	216.650	8.20932	5.80944	7.64400	1.2454	1.0167
17900	17951	216.650	-56.500	216.650	8.10800	5.71853	7.52440	1.2259	1.0008
18000	18051	216.650	-56.500	216.650	8.00762 * 1	5.62908 * 1	7.40668 - 2	1.2068 - 1	9.8511 - 2
18100	18152	216.650	-56.500	216.650	7.90811	5.54101	7.29080	1.1879	9.6970
18200	18252	216.650	-56.500	216.650	7.80953	5.45432	7.17674	1.1693	9.5452
18300	18353	216.650	-56.500	216.650	7.71188	5.36899	7.06444	1.1510	9.3959
18400	18453	216.650	-56.500	216.650	7.61517	5.28499	6.95393	1.1330	9.2489
18500	18554	216.650	-56.500	216.650	7.51939	5.20230	6.84514	1.1153	9.1042
18600	18655	216.650	-56.500	216.650	7.42452	5.12091	6.73804	1.0978	8.9618
18700	18755	216.650	-56.500	216.650	7.33055	5.04080	6.63263	1.0804	8.8216
18800	18856	216.650	-56.500	216.650	7.23748	4.96193	6.52886	1.0637	8.6835
18900	18956	216.650	-56.500	216.650	7.14531	4.88430	6.42671	1.0471	8.5477

TABLE I — Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
11000	10781	216.774	-56.376	216.774	2.26999 * 2	1.70263 * 2	2.24031 - 1	3.6480 - 1	2.9780 - 1
11100	10881	216.650	-56.500	216.650	2.25960	1.67409	2.20538	3.5932	2.9532
11200	10980	216.650	-56.500	216.650	2.19976	1.64496	2.17100	3.5372	2.8875
11300	11079	216.650	-56.500	216.650	2.16547	1.62423	2.13715	3.4820	2.8425
11400	11178	216.650	-56.500	216.650	2.13171	1.59891	2.10303	3.4277	2.7982
11500	11277	216.650	-56.500	216.650	2.09848	1.57399	2.07103	3.3743	2.7545
11600	11376	216.650	-56.500	216.650	2.06576	1.54945	2.03875	3.3217	2.7116
11700	11475	216.650	-56.500	216.650	2.03358	1.52530	2.00697	3.2697	2.6693
11800	11574	216.650	-56.500	216.650	2.00186	1.50152	1.97568	3.2199	2.6277
11900	11673	216.650	-56.500	216.650	1.97066	1.47812	1.94489	3.1688	2.5868
12000	11772	216.650	-56.500	216.650	1.93994 * 2	1.45506 * 2	1.91437 - 1	3.1184 - 1	2.5466 - 1
12100	11871	216.650	-56.500	216.650	1.90970	1.43240	1.88473	3.0708	2.5067
12200	11970	216.650	-56.500	216.650	1.87994	1.41007	1.85536	3.0229	2.4677
12300	12069	216.650	-56.500	216.650	1.85064	1.38809	1.82644	2.9758	2.4292
12400	12168	216.650	-56.500	216.650	1.82180	1.36644	1.79797	2.9294	2.3914
12500	12267	216.650	-56.500	216.650	1.79361	1.34517	1.76995	2.8838	2.3541
12600	12366	216.650	-56.500	216.650	1.76545	1.32420	1.74237	2.8488	2.3174
12700	12465	216.650	-56.500	216.650	1.73795	1.30357	1.71522	2.7946	2.2813
12800	12564	216.650	-56.500	216.650	1.71086	1.28324	1.68849	2.7510	2.2457
12900	12663	216.650	-56.500	216.650	1.68420	1.26328	1.66218	2.7082	2.2107
13000	12762	216.650	-56.500	216.650	1.65796 * 2	1.24357 * 2	1.63623 - 1	2.6660 - 1	2.1763 - 1
13100	12861	216.650	-56.500	216.650	1.63213	1.22420	1.61078	2.6244	2.1424
13200	12960	216.650	-56.500	216.650	1.60670	1.20512	1.58569	2.5835	2.1090
13300	13059	216.650	-56.500	216.650	1.58166	1.18634	1.56098	2.5433	2.0761
13400	13158	216.650	-56.500	216.650	1.55702	1.16784	1.53666	2.5037	2.0438
13500	13257	216.650	-56.500	216.650	1.53276	1.14967	1.51272	2.4644	2.0120
13600	13356	216.650	-56.500	216.650	1.50888	1.13174	1.48915	2.4262	1.9806
13700	13455	216.650	-56.500	216.650	1.48538	1.11412	1.46595	2.3884	1.9498
13800	13554	216.650	-56.500	216.650	1.46224	1.09677	1.44312	2.3512	1.9194
13900	13653	216.650	-56.500	216.650	1.43946	1.07968	1.42063	2.3146	1.8895
14000	13752	216.650	-56.500	216.650	1.41704 * 2	1.06284 * 2	1.39851 - 1	2.2786 - 1	1.8600 - 1
14100	13851	216.650	-56.500	216.650	1.39496	1.04631	1.37672	2.2431	1.8311
14200	13950	216.650	-56.500	216.650	1.37323	1.03001	1.35526	2.2081	1.8026
14300	14049	216.650	-56.500	216.650	1.35184	1.01397	1.33417	2.1737	1.7745
14400	14148	216.650	-56.500	216.650	1.33079	9.98174 * 1	1.31339	2.1399	1.7468
14500	14247	216.650	-56.500	216.650	1.31004	9.86268	1.29293	2.1065	1.7196
14600	14346	216.650	-56.500	216.650	1.28966	9.74524	1.27279	2.0737	1.6928
14700	14445	216.650	-56.500	216.650	1.26957	9.62959	1.25297	2.0414	1.6665
14800	14544	216.650	-56.500	216.650	1.24980	9.51529	1.23346	2.0097	1.6405
14900	14643	216.650	-56.500	216.650	1.23034	9.40281	1.21425	1.9784	1.6150
15000	14742	216.650	-56.500	216.650	1.21118 * 2	9.29200 * 1	1.19536 - 1	1.9475 - 1	1.5898 - 1
15100	14841	216.650	-56.500	216.650	1.19232	9.18313	1.17673	1.9172	1.5651
15200	14940	216.650	-56.500	216.650	1.17375	9.07588	1.15840	1.8874	1.5407
15300	15039	216.650	-56.500	216.650	1.15548	8.96979	1.14037	1.8580	1.5167
15400	15138	216.650	-56.500	216.650	1.13749	8.86485	1.12261	1.8291	1.4931
15500	15237	216.650	-56.500	216.650	1.11978	8.76105	1.10513	1.8006	1.4699
15600	15336	216.650	-56.500	216.650	1.10234	8.65834	1.08793	1.7725	1.4470
15700	15435	216.650	-56.500	216.650	1.08518	8.55671	1.07099	1.7449	1.4244
15800	15534	216.650	-56.500	216.650	1.06828	8.45615	1.05431	1.7178	1.4023
15900	15633	216.650	-56.500	216.650	1.05165	8.35665	1.03790	1.6910	1.3806
16000	15732	216.650	-56.500	216.650	1.03528 * 2	8.25820 * 1	1.02176 - 1	1.6647 - 1	1.3588 - 1
16100	15831	216.650	-56.500	216.650	1.01916	8.16084	1.00586	1.6388	1.3378
16200	15930	216.650	-56.500	216.650	1.00330	8.06457	9.90180 - 2	1.6133	1.3170
16300	16029	216.650	-56.500	216.650	9.87882 * 1	7.96933	9.74767	1.5882	1.2965
16400	16128	216.650	-56.500	216.650	9.72309	7.87429	9.59596	1.5634	1.2763
16500	16227	216.650	-56.500	216.650	9.57175	7.77940	9.44658	1.5391	1.2564
16600	16326	216.650	-56.500	216.650	9.42274	7.68465	9.29954	1.5152	1.2369
16700	16425	216.650	-56.500	216.650	9.27611	7.59004	9.15481	1.4916	1.2176
16800	16524	216.650	-56.500	216.650	9.13174	7.49556	9.01232	1.4684	1.1987
16900	16623	216.650	-56.500	216.650	8.98962	7.40127	8.87206	1.4455	1.1800
17000	16722	216.650	-56.500	216.650	8.84971 * 1	7.30713 * 1	8.73399 - 2	1.4230 - 1	1.1616 - 1
17100	16821	216.650	-56.500	216.650	8.71199	7.21313	8.59807	1.4009	1.1436
17200	16920	216.650	-56.500	216.650	8.57642	7.11924	8.46427	1.3791	1.1258
17300	17019	216.650	-56.500	216.650	8.44294	7.02547	8.33255	1.3576	1.1083
17400	17118	216.650	-56.500	216.650	8.31158	6.93182	8.20269	1.3365	1.0910
17500	17217	216.650	-56.500	216.650	8.18225	6.83829	8.07525	1.3157	1.0740
17600	17316	216.650	-56.500	216.650	8.05491	6.74487	7.94940	1.2952	1.0573
17700	17415	216.650	-56.500	216.650	7.92941	6.65156	7.82591	1.2751	1.0409
17800	17514	216.650	-56.500	216.650	7.80473	6.55835	7.70415	1.2552	1.0247
17900	17613	216.650	-56.500	216.650	7.68178	6.46524	7.58429	1.2357	1.0087
18000	17712	216.650	-56.500	216.650	7.56052 * 1	6.37338 * 1	7.46429 - 2	1.2165 - 1	9.9304 - 2
18100	17811	216.650	-56.500	216.650	7.44175	6.28166	7.35016	1.1975	9.7759
18200	17910	216.650	-56.500	216.650	7.32464	6.19014	7.23579	1.1789	9.6230
18300	18009	216.650	-56.500	216.650	7.20917	6.10081	7.12321	1.1606	9.4741
18400	18108	216.650	-56.500	216.650	7.09533	6.01264	7.01242	1.1425	9.3267
18500	18207	216.650	-56.500	216.650	6.98311	5.92564	6.90334	1.1247	9.1816
18600	18306	216.650	-56.500	216.650	6.87250	5.83981	6.79596	1.1071	9.0388
18700	18405	216.650	-56.500	216.650	6.76359	5.75515	6.69025	1.0900	8.8982
18800	18504	216.650	-56.500	216.650	6.65635	5.67164	6.58619	1.0731	8.7598
18900	18603	216.650	-56.500	216.650	6.55076	5.58928	6.48375	1.0564	8.6236

TABLE I — Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
19000	19037	216.650	-56.500	216.650	6.40999 + 1	4.80788 + 1	6.32616 - 2	1.0307 - 1	8.4140 - 2
19100	19158	216.650	-56.500	216.650	6.30970	4.75267	6.22719	1.0146	8.2823
19200	19258	216.650	-56.500	216.650	6.21098	4.69862	6.12977	9.9871 - 2	8.1527
19300	19359	216.650	-56.500	216.650	6.11181	4.64574	6.03386	9.8109	8.0252
19400	19459	216.650	-56.500	216.650	6.01816	4.59399	5.93966	9.6771	7.8996
19500	19560	216.650	-56.500	216.650	5.92401	4.54337	5.84654	9.5257	7.7740
19600	19661	216.650	-56.500	216.650	5.83132	4.49385	5.75507	9.3766	7.6544
19700	19761	216.650	-56.500	216.650	5.74009	4.44542	5.66503	9.2299	7.5344
19800	19862	216.650	-56.500	216.650	5.65029	4.39804	5.57640	9.0853	7.4148
19900	19963	216.650	-56.500	216.650	5.56189	4.35178	5.48916	8.9434	7.3007
20000	20063	216.650	-56.500	216.650	5.47487 + 1	4.30669 + 1	5.40328 - 2	8.8035 - 2	7.1865 - 2
20100	20164	216.750	-56.400	216.750	5.38924	4.26224	5.31874	8.6618	7.0708
20200	20264	216.850	-56.300	216.850	5.30378	4.21903	5.23561	8.5224	6.9571
20300	20365	216.950	-56.200	216.950	5.22208	4.17688	5.15379	8.3854	6.8452
20400	20466	217.050	-56.100	217.050	5.14651	4.13550	5.07329	8.2506	6.7352
20500	20566	217.150	-56.000	217.150	5.06625	4.09468	4.99408	8.1180	6.6270
20600	20667	217.250	-55.900	217.250	4.99128	4.05427	4.91618	7.9877	6.5205
20700	20768	217.350	-55.800	217.350	4.91358	4.01435	4.83965	7.8574	6.4159
20800	20868	217.450	-55.700	217.450	4.83712	3.97494	4.76400	7.7333	6.3129
20900	20969	217.550	-55.600	217.550	4.76189	3.93621	4.68976	7.6093	6.2117
21000	21070	217.650	-55.500	217.650	4.67787 + 1	3.89849 + 1	4.61670 - 2	7.4873 - 2	6.1121 - 2
21100	21170	217.750	-55.400	217.750	4.60504	3.86096	4.54482	7.3674	6.0142
21200	21271	217.850	-55.300	217.850	4.53337	3.82361	4.47409	7.2494	5.9179
21300	21372	217.950	-55.200	217.950	4.46285	3.78651	4.40449	7.1333	5.8231
21400	21472	218.050	-55.100	218.050	4.39345	3.75058	4.33600	7.0192	5.7400
21500	21573	218.150	-55.000	218.150	4.32517	3.71484	4.26861	6.9069	5.6583
21600	21674	218.250	-54.900	218.250	4.25798	3.67935	4.20230	6.7965	5.5782
21700	21774	218.350	-54.800	218.350	4.19186	3.64415	4.13705	6.6879	5.4995
21800	21875	218.450	-54.700	218.450	4.12680	3.60936	4.07284	6.5811	5.4221
21900	21976	218.550	-54.600	218.550	4.06278	3.57493	4.00965	6.4761	5.3466
22000	22076	218.650	-54.500	218.650	3.99978 + 1	3.54088 + 1	3.94767 - 2	6.3727 - 2	5.2022 - 2
22100	22177	218.750	-54.400	218.750	3.93778	3.50708	3.88429	6.2711	5.1192
22200	22278	218.850	-54.300	218.850	3.87678	3.47352	3.82108	6.1711	5.0376
22300	22379	218.950	-54.200	218.950	3.81678	3.44021	3.75827	6.0728	4.9574
22400	22479	219.050	-54.100	219.050	3.75766	3.40714	3.70552	5.9760	4.8784
22500	22580	219.150	-54.000	219.150	3.69953	3.37431	3.65115	5.8809	4.8007
22600	22681	219.250	-53.900	219.250	3.64231	3.34171	3.59666	5.7873	4.7243
22700	22781	219.350	-53.800	219.350	3.58601	3.30934	3.54312	5.6952	4.6492
22800	22882	219.450	-53.700	219.450	3.53061	3.27720	3.48944	5.6047	4.5753
22900	22983	219.550	-53.600	219.550	3.47608	3.24527	3.43562	5.5154	4.5026
23000	23084	219.650	-53.500	219.650	3.42242 + 1	3.21356 + 1	3.37767 - 2	5.4280 - 2	4.4310 - 2
23100	23184	219.750	-53.400	219.750	3.36961	3.18207	3.32555	5.3418	4.3607
23200	23285	219.850	-53.300	219.850	3.31765	3.15081	3.27426	5.2570	4.2915
23300	23386	219.950	-53.200	219.950	3.26650	3.11978	3.22379	5.1737	4.2234
23400	23486	220.050	-53.100	220.050	3.21617	3.08897	3.17411	5.0916	4.1564
23500	23587	220.150	-53.000	220.150	3.16663	3.05837	3.12523	5.0109	4.0905
23600	23688	220.250	-52.900	220.250	3.11788	3.02797	3.07711	4.9315	4.0257
23700	23789	220.350	-52.800	220.350	3.06991	3.00000	3.02976	4.8534	3.9620
23800	23889	220.450	-52.700	220.450	3.02269	2.97226	3.00000	4.7766	3.8993
23900	23990	220.550	-52.600	220.550	2.97622	2.94473	2.97330	4.7011	3.8376
24000	24091	220.650	-52.500	220.650	2.93048 + 1	2.91804 + 1	2.89216 - 2	4.6267 - 2	3.7769 - 2
24100	24192	220.750	-52.400	220.750	2.88547	2.89028	2.86774	4.5536	3.7172
24200	24292	220.850	-52.300	220.850	2.84117	2.86275	2.84041	4.4816	3.6585
24300	24393	220.950	-52.200	220.950	2.79756	2.83545	2.81308	4.4109	3.6007
24400	24494	221.050	-52.100	221.050	2.75465	2.80834	2.78616	4.3412	3.5439
24500	24595	221.150	-52.000	221.150	2.71241	2.78145	2.75944	4.2727	3.4880
24600	24696	221.250	-51.900	221.250	2.67084	2.75477	2.73292	4.2054	3.4329
24700	24796	221.350	-51.800	221.350	2.62993	2.72830	2.70664	4.1391	3.3788
24800	24897	221.450	-51.700	221.450	2.58966	2.70204	2.68058	4.0739	3.3256
24900	24998	221.550	-51.600	221.550	2.55002	2.67600	2.65468	4.0097	3.2732
25000	25099	221.650	-51.500	221.650	2.51101 + 1	2.65016 + 1	2.62781 - 2	3.9466 - 2	3.2217 - 2
25100	25200	221.750	-51.400	221.750	2.47262	2.62441	2.60228	3.8845	3.1710
25200	25300	221.850	-51.300	221.850	2.43482	2.59881	2.57684	3.8234	3.1211
25300	25401	221.950	-51.200	221.950	2.39762	2.57337	2.55157	3.7633	3.0720
25400	25502	222.050	-51.100	222.050	2.36101	2.54807	2.52642	3.7041	3.0230
25500	25603	222.150	-51.000	222.150	2.32497	2.52291	2.50141	3.6459	2.9741
25600	25704	222.250	-50.900	222.250	2.28950	2.49790	2.47654	3.5887	2.9255
25700	25805	222.350	-50.800	222.350	2.25468	2.47303	2.45181	3.5324	2.8783
25800	25906	222.450	-50.700	222.450	2.22051	2.44830	2.42721	3.4770	2.8315
25900	26006	222.550	-50.600	222.550	2.18698	2.42371	2.40277	3.4224	2.7858
26000	26107	222.650	-50.500	222.650	2.15308 + 1	2.39926 + 1	2.37849 - 2	3.3688 - 2	2.7500 - 2
26100	26208	222.750	-50.400	222.750	2.12031	2.37491	2.35428	3.3160	2.7070
26200	26308	222.850	-50.300	222.850	2.08804	2.35066	2.33017	3.2641	2.6644
26300	26409	222.950	-50.200	222.950	2.05628	2.32651	2.30616	3.2130	2.6229
26400	26510	223.050	-50.100	223.050	2.02502	2.30246	2.28224	3.1628	2.5818
26500	26611	223.150	-50.000	223.150	1.99425	2.27851	2.25841	3.1133	2.5415
26600	26712	223.250	-49.900	223.250	1.96396	2.25466	2.23466	3.0646	2.5017
26700	26813	223.350	-49.800	223.350	1.93414	2.23091	2.21101	3.0168	2.4627
26800	26913	223.450	-49.700	223.450	1.90479	2.20726	2.18746	2.9696	2.4242
26900	27014	223.550	-49.600	223.550	1.87589	2.18371	2.16391	2.9233	2.3864

TABLE I - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
19000	18943	216.450	-56.500	216.450	4.64748 + 1	4.85101 + 1	4.36291 - 2	1.0400 - 1	0.44894 - 2
19100	19043	216.450	-56.500	216.450	4.56489	4.77556	4.28444	1.0238	0.3574
19200	19142	216.450	-56.500	216.450	4.26758	4.70129	4.18591	1.0079	0.2274
19300	19242	216.450	-56.500	216.450	4.17040	4.62010	4.08971	9.9217 - 2	0.0995
19400	19341	216.450	-56.500	216.450	4.07445	4.53821	3.99501	9.7678	7.9735
19500	19440	216.450	-56.500	216.450	3.97908	4.45534	3.90179	9.6157	7.8495
19600	19540	216.450	-56.500	216.450	3.88499	4.37161	3.81001	9.4661	7.7275
19700	19639	216.450	-56.500	216.450	3.79245	4.28645	3.71967	9.3190	7.6073
19800	19739	216.450	-56.500	216.450	3.70034	4.20016	3.63073	9.1780	7.4890
19900	19838	216.450	-56.500	216.450	3.60881	4.11282	3.54318	9.0314	7.3726
20000	19937	216.450	-56.500	216.450	3.51930 + 1	4.02432 + 1	3.45700 - 2	8.8910 - 2	7.2579 - 2
20100	20037	216.487	-56.485	216.487	3.43334	3.93824	3.37216	8.7513	7.1439
20200	20136	216.786	-56.364	216.786	3.35874	3.85399	3.28867	8.6113	7.0297
20300	20235	216.885	-56.265	216.885	3.27550	3.76965	3.20651	8.4737	6.9173
20400	20335	216.985	-56.165	216.985	3.19340	3.68552	3.12568	8.3383	6.8068
20500	20434	217.084	-56.066	217.084	3.11300	3.60304	3.04614	8.2051	6.6981
20600	20533	217.183	-55.967	217.183	3.03349	3.52150	2.96786	8.0742	6.5912
20700	20633	217.283	-55.867	217.283	2.95545	3.44104	2.88905	7.9454	6.4860
20800	20732	217.382	-55.768	217.382	2.87886	3.36095	2.81506	7.8187	6.3826
20900	20832	217.481	-55.669	217.481	2.80329	3.28276	2.74048	7.6940	6.2809
21000	20931	217.581	-55.569	217.581	2.72893 + 1	3.20469 + 1	2.66709 - 2	7.5715 - 2	6.1808 - 2
21100	21030	217.680	-55.470	217.680	2.65576	3.12921	2.59488	7.4509	6.0824
21200	21130	217.780	-55.370	217.780	2.58376	3.05381	2.52382	7.3323	5.9856
21300	21229	217.879	-55.271	217.879	2.51289	2.97895	2.45388	7.2157	5.8904
21400	21328	217.978	-55.172	217.978	2.44317	2.90465	2.38507	7.1010	5.7967
21500	21428	218.078	-55.072	218.078	2.37455	2.83118	2.31735	6.9881	5.7046
21600	21527	218.177	-54.973	218.177	2.30702	2.75802	2.25070	6.8771	5.6140
21700	21626	218.276	-54.874	218.276	2.24057	2.68609	2.18512	6.7679	5.5248
21800	21725	218.375	-54.775	218.375	2.17518	2.61464	2.12058	6.6605	5.4372
21900	21825	218.475	-54.675	218.475	2.11082	2.54337	2.05707	6.5549	5.3509
22000	21924	218.574	-54.576	218.574	2.04749 + 1	2.47358 + 1	2.99456 - 2	6.4510 - 2	5.2641 - 2
22100	22023	218.673	-54.477	218.673	1.98517	2.40305	2.93305	6.3488	5.1827
22200	22123	218.773	-54.377	218.773	1.92383	2.33311	2.87252	6.2482	5.1006
22300	22222	218.872	-54.278	218.872	1.86344	2.26378	2.81294	6.1493	5.0198
22400	22321	218.971	-54.179	218.971	1.80406	2.19528	2.75431	6.0520	4.9404
22500	22421	219.071	-54.079	219.071	1.74559	2.12802	2.69661	5.9563	4.8623
22600	22520	219.170	-53.980	219.170	1.68805	2.06227	2.63982	5.8621	4.7854
22700	22619	219.269	-53.881	219.269	1.63143	2.00000	2.58394	5.7695	4.7098
22800	22718	219.369	-53.781	219.369	1.57549	1.93862	2.52893	5.6784	4.6354
22900	22818	219.468	-53.682	219.468	1.52086	1.87805	2.47480	5.5887	4.5622
23000	22917	219.567	-53.583	219.567	1.46686 + 1	1.81834 + 1	2.42153 - 2	5.5006 - 2	4.4903 - 2
23100	23016	219.666	-53.484	219.666	1.41373	1.76001	2.36909	5.4138	4.4194
23200	23116	219.766	-53.384	219.766	1.36144	1.70219	2.31748	5.3285	4.3498
23300	23215	219.865	-53.285	219.865	1.30997	1.64586	2.26649	5.2445	4.2813
23400	23314	219.964	-53.186	219.964	1.25932	1.59099	2.21670	5.1619	4.2138
23500	23413	220.063	-53.087	220.063	1.20947	1.53750	2.16750	5.0807	4.1475
23600	23513	220.163	-52.987	220.163	1.16040	1.48530	2.11908	5.0008	4.0823
23700	23612	220.262	-52.888	220.262	1.11211	1.43427	2.07181	4.9221	4.0181
23800	23711	220.361	-52.789	220.361	1.06457	1.38432	2.02450	4.8448	3.9549
23900	23810	220.460	-52.690	220.460	1.01779	1.33553	1.97833	4.7687	3.8928
24000	23910	220.560	-52.590	220.560	2.97174 + 1	2.22899 + 1	2.93288 - 2	4.6938 - 2	3.8317 - 2
24100	24009	220.659	-52.491	220.659	2.92642	2.18499	2.88815	4.6201	3.7715
24200	24108	220.758	-52.392	220.758	2.88180	2.14153	2.84412	4.5476	3.7124
24300	24207	220.857	-52.293	220.857	2.83789	2.10000	2.80078	4.4763	3.6541
24400	24307	220.957	-52.193	220.957	2.79467	2.05918	2.75813	4.4062	3.5969
24500	24406	221.056	-52.094	221.056	2.75213	2.01827	2.71616	4.3372	3.5405
24600	24505	221.155	-51.995	221.155	2.71025	2.00000	2.67481	4.2692	3.4851
24700	24604	221.254	-51.896	221.254	2.66904	1.96194	2.63413	4.2024	3.4306
24800	24704	221.354	-51.796	221.354	2.62847	1.92451	2.59409	4.1367	3.3769
24900	24803	221.453	-51.697	221.453	2.58853	1.88756	2.55468	4.0720	3.3241
25000	24902	221.552	-51.598	221.552	2.54922 + 1	1.85107 + 1	2.51588 - 2	4.0084 - 2	3.2722 - 2
25100	25001	221.651	-51.499	221.651	2.51052	1.81505	2.47749	3.9458	3.2210
25200	25100	221.750	-51.400	221.750	2.47243	1.77948	2.44010	3.8842	3.1707
25300	25200	221.850	-51.300	221.850	2.43494	1.74448	2.40310	3.8236	3.1213
25400	25299	221.949	-51.201	221.949	2.39803	1.70947	2.36647	3.7639	3.0726
25500	25398	222.048	-51.102	222.048	2.36170	1.67446	2.33081	3.7052	3.0247
25600	25497	222.147	-51.003	222.147	2.32593	1.63945	2.29552	3.6475	2.9775
25700	25597	222.246	-50.903	222.246	2.29073	1.60444	2.26077	3.5907	2.9312
25800	25696	222.346	-50.804	222.346	2.25607	1.56943	2.22657	3.5349	2.8855
25900	25795	222.445	-50.705	222.445	2.22196	1.53442	2.19290	3.4798	2.8404
26000	25894	222.544	-50.606	222.544	2.18837 + 1	1.49941 + 1	2.15976 - 2	3.4257 - 2	2.7965 - 2
26100	25993	222.643	-50.507	222.643	2.15531	1.46440	2.12713	3.3724	2.7530
26200	26092	222.742	-50.408	222.742	2.12277	1.42939	2.09501	3.3200	2.7102
26300	26192	222.842	-50.308	222.842	2.09073	1.39438	2.06339	3.2684	2.6681
26400	26291	222.941	-50.209	222.941	2.05919	1.35937	2.03224	3.2177	2.6267
26500	26390	223.040	-50.110	223.040	2.02814	1.32436	2.00161	3.1678	2.5859
26600	26489	223.139	-50.011	223.139	1.99757	1.28935	1.97145	3.1186	2.5458
26700	26588	223.238	-49.912	223.238	1.96747	1.25434	1.94175	3.0703	2.5064
26800	26687	223.337	-49.813	223.337	1.93785	1.21933	1.91251	3.0227	2.4675
26900	26787	223.437	-49.713	223.437	1.90868	1.18432	1.88372	2.9759	2.4293

TABLE I - Concluded
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
H, m	Z, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
60000	60372	234.650	-18.500	234.650	7.08354 - 1	1.56278 - 1	2.05629 - 4	2.8501 - 4	7.3268 - 4
60500	61081	233.650	-19.500	233.650	1.94810	1.96120	1.92265	2.8756	2.1841
61000	61591	232.650	-20.500	232.650	1.82099	1.36585	1.79718	2.5109	2.0097
61500	62101	230.650	-22.500	230.650	1.70140	1.27622	1.67923	2.3448	1.9305
62000	62611	228.650	-24.500	228.650	1.58896	1.19182	1.56818	2.2262	1.8113
62500	63121	226.650	-26.500	226.650	1.48305	1.11258	1.46366	2.0947	1.7099
63000	63631	224.650	-28.500	224.650	1.38363	1.03766	1.36554	1.9699	1.6081
63500	64141	222.650	-30.500	222.650	1.28978	0.97402 - 2	1.27290	1.8517	1.5116
64000	64651	220.650	-32.500	220.650	1.20174	0.91374	1.18403	1.7397	1.4201
64500	65161	218.650	-34.500	218.650	1.11924	0.85367	1.10463	1.6335	1.3335
65000	65672	216.650	-36.500	216.650	1.04145 - 1	7.81153 - 2	1.02783 - 4	1.5331 - 4	1.2515 - 4
65500	66182	214.650	-38.500	214.650	0.96830 - 2	7.24513	9.55944 - 5	1.4381	1.1739
66000	66693	212.650	-40.500	212.650	0.90842	6.75512	8.69569	1.3602	1.1005
66500	67203	210.650	-42.500	210.650	8.36340	6.27307	8.25804	1.2932	1.0312
67000	67714	208.650	-44.500	208.650	7.78389	5.82340	7.66237	1.1829	0.9583 - 5
67500	68225	206.650	-46.500	206.650	7.20265	5.40243	7.10846	1.1071	0.9033
68000	68735	204.650	-48.500	204.650	6.67753	5.00856	6.59021	1.0355	0.8530
68500	69246	202.650	-50.500	202.650	6.18651	4.64027	6.10561	0.96797 - 5	7.9018
69000	69757	200.650	-52.500	200.650	5.72765	4.29809	5.65275	9.0430	7.3820
69500	70268	218.650	-54.500	218.650	5.29410	3.97465	5.22981	8.4420	6.8922
70000	70780	216.650	-56.500	216.650	4.89912 - 2	3.67444 - 2	4.83505 - 5	7.8777 - 5	6.4307 - 5
70500	71291	214.650	-58.500	214.650	4.52603	3.39400	4.46684	7.3454	5.9946
71000	71802	212.650	-60.500	212.650	4.17825	3.13395	4.12361	6.8449	5.5877
71500	72313	210.650	-62.500	210.650	3.85428	2.89095	3.80388	6.3741	5.2034
72000	72825	208.650	-64.500	208.650	3.55270	2.66474	3.50024	5.9317	4.8422
72500	73337	206.650	-66.500	206.650	3.27214	2.45431	3.22935	5.5161	4.5030
73000	73848	204.650	-68.500	204.650	3.01133	2.25869	2.97194	5.1261	4.1846
73500	74360	202.650	-70.500	202.650	2.76905	2.07494	2.73284	4.7602	3.8859
74000	74872	200.650	-72.500	200.650	2.54415	1.90827	2.51088	4.4171	3.6058
74500	75384	198.650	-74.500	198.650	2.33552	1.75179	2.30498	4.0950	3.3435
75000	75896	196.65	-76.50	196.65	2.1422 - 2	1.6067 - 2	2.1141 - 5	3.795 - 5	3.098 - 5
75500	76408	194.65	-78.50	194.65	1.9631	1.4724	1.9374	3.513	2.860
76000	76920	192.65	-80.50	192.65	1.7973	1.3481	1.7738	3.250	2.653
76500	77432	190.65	-82.50	190.65	1.6441	1.2331	1.6224	3.004	2.452
77000	77944	188.65	-84.50	188.65	1.5024	1.1269	1.4828	2.774	2.265
77500	78457	186.65	-86.50	186.65	1.3717	1.0269	1.3538	2.560	2.090
78000	78969	184.65	-88.50	184.65	1.2511	0.9383 - 3	1.2348	2.360	1.927
78500	79482	182.65	-90.5	182.65	1.1400	0.8508	1.1251	2.174	1.775
79000	79994	180.65	-92.50	180.65	1.0377	0.7734	1.0241	2.001	1.634
79500	80507	180.65	-92.50	180.65	0.9407 - 3	7.0811	0.93173 - 6	1.821	1.486
80000	81020	180.65	-92.50	180.65	0.85890 - 3	6.4422 - 3	8.4746 - 6	1.656 - 5	1.352 - 5
80500	81533	180.65	-92.50	180.65	7.8140	5.8610	7.7118	1.507	1.230
81000	82046	180.65	-92.50	180.65	7.1575	5.3322	7.0161	1.371	1.119
81500	82559	180.65	-92.50	180.65	6.4676	4.8511	6.3830	1.247	1.014
82000	83072	180.65	-92.50	180.65	5.8861	4.4134	5.8071	1.135	0.9263 - 6
82500	83585	180.65	-92.50	180.65	5.3537	4.0152	5.2832	1.032	0.8427
83000	84098	180.65	-92.50	180.65	4.8702	3.6530	4.8065	0.942 - 6	7.667
83500	84612	180.65	-92.50	180.65	4.4308	3.3234	4.3729	0.864	6.975
84000	85125	180.65	-92.50	180.65	4.0310	3.0235	3.9783	7.774	6.346
84500	85639	180.65	-92.50	180.65	3.6674	2.7507	3.6194	7.072	5.773
85000	86152	180.65	-92.50	180.65	3.3365 - 3	2.5024 - 3	3.2928 - 6	6.434 - 6	5.252 - 6
85500	86666	180.65	-92.50	180.65	3.0354	2.2748	2.9957	5.854	4.778
86000	87180	180.65	-92.50	180.65	2.7614	2.0714	2.7255	5.325	4.367
86500	87693	180.65	-92.50	180.65	2.5124	1.8845	2.4794	4.845	3.955
87000	88207	180.65	-92.50	180.65	2.2857	1.7144	2.2558	4.408	3.598
87500	88721	180.65	-92.50	180.65	2.0795	1.5598	2.0525	4.010	3.274
88000	89234	180.65	-92.50	180.65	1.8919	1.4190	1.8671	3.648	2.978
88500	89750	180.65	-92.50	180.65	1.7212	1.2910	1.6987	3.319	2.710
89000	90264	181.44	-91.71	181.44	1.5661	1.1746	1.5454	3.007	2.455
89500	90778	182.97	-90.18	182.98	1.4259	1.0695	1.4073	2.715	2.216
90000	91293	184.51	-88.64	184.53	1.2994 - 3	9.7459 - 4	1.2824 - 6	2.453 - 6	2.002 - 6

TABLE I — Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
40000	59419	255.772	-17.376	255.772	2.24604	1.68889	2.21669	1.0592	2.4071
40500	59430	256.791	-16.359	256.791	2.10332	1.57742	2.07582	2.0758	2.3676
41000	60420	258.010	-15.360	258.010	1.98917	1.47700	1.96882	2.7020	2.2044
41500	60911	259.229	-14.321	259.229	1.88332	1.38248	1.81802	2.5396	2.0731
42000	61401	261.044	-12.106	261.044	1.72457	1.23457	1.70202	2.3931	1.9536
42500	61891	264.066	-9.066	264.066	1.61263	1.10472	1.59174	2.2557	1.8614
43000	62382	267.123	-6.027	267.123	1.50754	1.00075	1.48703	2.1252	1.7590
43500	62872	269.163	-4.987	269.163	1.40838	1.05837	1.38887	2.0013	1.6337
44000	63362	269.988	-3.988	269.988	1.31504	0.98886	1.29785	1.8837	1.5397
44500	63852	261.262	-31.908	261.262	1.22722	0.92092	1.21117	1.7722	1.4467
45000	64342	259.282	-33.868	259.282	1.14463	0.85845	1.12906	1.6645	1.3604
45500	64832	257.323	-35.827	257.323	1.06735	0.80017	1.05105	1.5663	1.2766
46000	65322	255.363	-37.787	255.363	0.99407	0.74512	0.97608	1.4713	1.2011
46500	65811	253.404	-39.766	253.404	0.92581	0.69269	0.91378	1.3815	1.1277
47000	66301	251.446	-41.704	251.446	0.861305	0.64302	0.85042	1.2966	1.0583
47500	66791	249.487	-43.663	249.487	0.801011	0.60087	0.80536	1.2160	0.9926
48000	67280	247.529	-45.621	247.529	0.744481	0.56408	0.75747	1.1399	0.9301
48500	67770	245.572	-47.578	245.572	0.691516	0.531678	0.68272	1.0680	0.87180
49000	68259	243.616	-49.536	243.616	0.641909	0.501471	0.63515	1.0000	0.81635
49500	68748	241.657	-51.493	241.657	0.595479	0.468866	0.58762	0.9389	0.76599
50000	69237	239.700	-53.450	239.700	0.552067	0.434069	0.546028	0.87535	0.71057
50500	69727	237.744	-55.406	237.744	0.511441	0.403613	0.504753	0.81824	0.65796
51000	70216	235.788	-57.362	235.788	0.473502	0.375156	0.467310	0.76462	0.60602
51500	70705	233.832	-59.318	233.832	0.438075	0.348075	0.432366	0.71370	0.56261
52000	71193	231.876	-61.274	231.876	0.405013	0.323051	0.407717	0.66593	0.52561
52500	71682	229.921	-63.229	229.921	0.374179	0.299658	0.38286	0.62096	0.49191
53000	72171	227.966	-65.186	227.966	0.345461	0.278102	0.349924	0.57866	0.46237
53500	72660	226.011	-67.139	226.011	0.318673	0.258025	0.314506	0.53880	0.43690
54000	73148	224.057	-69.093	224.057	0.293758	0.239336	0.289916	0.50151	0.40959
54500	73637	222.103	-71.047	222.103	0.270581	0.222953	0.267063	0.46641	0.38074
55000	74125	220.15	-73.00	220.15	0.24904	0.208679	0.24578	0.4335	0.3538
55500	74614	218.20	-74.95	218.20	0.22903	0.197178	0.22603	0.4026	0.3284
56000	75102	216.24	-76.91	216.24	0.21045	0.18785	0.20770	0.3736	0.3050
56500	75590	214.29	-78.86	214.29	0.19322	0.17943	0.19049	0.3465	0.2826
57000	76078	212.34	-80.81	212.34	0.17725	0.17255	0.17469	0.3210	0.2621
57500	76566	210.38	-82.77	210.38	0.16246	0.16686	0.16036	0.2973	0.2427
58000	77054	208.43	-84.72	208.43	0.14877	0.16159	0.14683	0.2750	0.2245
58500	77542	206.48	-86.67	206.48	0.13611	0.15699	0.13453	0.2543	0.2074
59000	78030	204.53	-88.62	204.53	0.12442	0.15279	0.12279	0.2349	0.1917
59500	78518	202.58	-90.57	202.58	0.11367	0.148923	0.11214	0.2168	0.1770
60000	79006	200.65	-92.50	200.65	0.10386	0.13530	0.10231	0.1999	0.1632
60500	79494	200.65	-92.50	200.65	0.09530	0.09903	0.09293	0.1873	0.1488
61000	79981	200.65	-92.50	200.65	0.08794	0.09204	0.085076	0.1762	0.1357
61500	80468	200.65	-92.50	200.65	0.0812	0.08584	0.07584	0.1662	0.1238
62000	80955	200.65	-92.50	200.65	0.075013	0.07972	0.07053	0.1582	0.1129
62500	81443	200.65	-92.50	200.65	0.069379	0.074038	0.06524	0.1521	0.1029
63000	81930	200.65	-92.50	200.65	0.06424	0.068722	0.06045	0.1469	0.0936
63500	82417	200.65	-92.50	200.65	0.059577	0.063786	0.05666	0.1429	0.0856
64000	82904	200.65	-92.50	200.65	0.055292	0.059147	0.05283	0.1393	0.0787
64500	83391	200.65	-92.50	200.65	0.051220	0.054926	0.04937	0.1362	0.07120
65000	83878	200.65	-92.50	200.65	0.047250	0.050940	0.04710	0.1335	0.0649
65500	84365	200.65	-92.50	200.65	0.043421	0.047129	0.043729	0.1312	0.0592
66000	84852	200.65	-92.50	200.65	0.039713	0.043537	0.03984	0.1292	0.0540
66500	85339	200.65	-92.50	200.65	0.036129	0.040146	0.03606	0.1274	0.0497
67000	85825	200.65	-92.50	200.65	0.032666	0.036944	0.03271	0.1258	0.0459
67500	86312	200.65	-92.50	200.65	0.029315	0.033928	0.02946	0.1243	0.0426
68000	86798	200.65	-92.50	200.65	0.026076	0.031091	0.02634	0.1229	0.0398
68500	87285	200.65	-92.50	200.65	0.022948	0.028426	0.02327	0.1216	0.0373
69000	87771	200.65	-92.50	200.65	0.019930	0.025929	0.02030	0.1204	0.0349
69500	88257	200.65	-92.50	200.65	0.017021	0.023597	0.01795	0.1193	0.0327
70000	88744	200.65	-92.50	200.65	0.014318	0.021429	0.01523	0.1182	0.0308

TABLE I — Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °C	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
90000	88743	180.65	-92.50	150.65	1.6638 - 3	1.2329 - 3	1.6223 - 6	3.170 - 4	2.588 - 4
90500	89249	182.14	-91.01	152.15	1.5000	1.1251	1.6804	2.849	2.543
91000	89755	183.63	-89.52	153.65	1.3698	1.0274	1.7519	2.596	2.121
91500	90261	185.13	-88.02	155.15	1.2519	0.9395	1.8355	2.355	1.823
92000	90767	186.62	-86.53	156.65	1.1469	0.8577	1.9300	2.137	1.704
92500	91273	188.10	-85.05	158.15	1.0549	0.7809	1.0342	1.940	1.584
93000	91779	189.59	-83.56	159.65	0.9727	0.7080	0.4722 - 7	1.764	1.484
93500	92284	191.08	-82.07	161.15	0.7966	0.5981	0.6818	1.603	1.394
94000	92790	192.56	-80.59	162.65	0.6683	0.5117	0.9628	1.459	1.311
94500	93296	194.04	-79.11	164.15	0.4052	0.5544	0.3084	1.329	1.085
95000	93801	195.51	-77.64	165.65	0.8612	0.5013	0.7122 - 7	1.211	0.986 - 7
95500	94307	197.00	-76.17	167.15	0.2504	0.6883	0.1668	1.104	0.916
96000	94812	198.45	-74.70	168.65	0.7693	0.3116	0.8711	1.008	0.829
96500	95318	199.92	-73.23	170.15	0.2697	1.9676	0.2206	0.207 - 7	0.715
97000	95823	201.37	-71.76	171.65	0.8709	0.6535	0.8072	0.415	0.869
97500	96329	202.85	-70.28	173.15	0.4680	0.3663	0.6293	0.696	0.783
98000	96834	204.28	-68.81	174.65	0.1377	0.1036	0.0856	0.044	0.750
98500	97339	205.72	-67.33	176.15	0.8171	0.8631	0.7672	0.450	0.746
99000	97844	207.16	-65.86	177.65	0.5253	0.6420	0.4774	0.911	0.825
99500	98349	208.60	-64.39	179.15	0.2543	0.4409	0.2117	0.420	0.425
100000	98851	210.02	-63.13	180.65	0.0075 - 6	0.2558 - 6	0.9681 - 7	0.074 - 7	0.060 - 7
100500	99356	211.44	-58.29	181.65	0.5748	1.9312	0.5611	0.359	0.395
101000	99860	212.86	-53.49	182.65	0.2123	1.6596	0.1834	0.493	0.551
101500	100365	214.23	-48.72	183.65	1.9074	1.4307	1.0825	0.945	2.004
102000	100869	215.55	-43.97	184.65	1.6500	1.2376	1.4284	0.492	2.034
102500	101374	216.80	-39.25	185.65	1.4318	1.0739	1.4133	0.117	1.720
103000	101878	218.00	-34.57	186.65	1.2462	0.9347	1.2299	1.804	1.673
103500	102382	219.15	-29.92	187.65	1.0879	0.8156	1.0736	1.543	1.259
104000	102886	220.25	-25.30	188.65	0.9525	0.7142	0.9380	1.323	1.080
104500	103389	221.30	-20.71	189.65	0.8378	0.6289	0.8285	1.139	0.929 - 8
105000	103893	222.30	-16.15	190.65	0.7354	0.5513	0.7258	0.820	0.802 - 8
105500	104396	223.25	-11.71	191.65	0.6495	0.4817	0.6401	0.560	0.625
106000	104899	224.15	-7.70	192.65	0.5763	0.4220	0.5689	0.353	0.539
106500	105399	225.00	-3.70	193.65	0.5138	0.3707	0.5050	0.246	0.453
107000	105899	225.80	0.25	194.65	0.4619	0.3262	0.4531	0.171	0.383
107500	106399	226.55	5.20	195.65	0.4194	0.2877	0.4092	0.123	0.337
108000	106899	227.25	10.15	196.65	0.3863	0.2542	0.3723	0.086	0.299
108500	107399	227.90	15.10	197.65	0.3525	0.2257	0.3354	0.059	0.267
109000	107899	228.50	20.05	198.65	0.3180	0.2012	0.3009	0.041	0.239
109500	108399	229.05	24.95	199.65	0.2828	0.1807	0.2680	0.029	0.214
110000	108899	229.55	29.80	200.65	0.2470	0.1632	0.2361	0.020	0.191
110500	109399	230.00	34.60	201.65	0.2106	0.1487	0.2061	0.014	0.170
111000	109899	230.40	39.35	202.65	0.1737	0.1372	0.1781	0.010	0.151
111500	110399	230.75	44.05	203.65	0.1363	0.1287	0.1521	0.007	0.134
112000	110899	231.05	48.70	204.65	0.0984	0.1232	0.1281	0.005	0.119
112500	111399	231.30	53.30	205.65	0.0600	0.1207	0.1061	0.003	0.106
113000	111899	231.50	57.85	206.65	0.0415	0.1202	0.0871	0.002	0.094
113500	112399	231.65	62.35	207.65	0.0229	0.1217	0.0711	0.001	0.083
114000	112899	231.75	66.80	208.65	0.0144	0.1242	0.0581	0.000	0.074
114500	113399	231.80	71.20	209.65	0.0089	0.1277	0.0481	0.000	0.067
115000	113899	231.80	75.55	210.65	0.0054	0.1322	0.0401	0.000	0.061
115500	114399	231.75	79.85	211.65	0.0034	0.1377	0.0341	0.000	0.056
116000	114899	231.60	84.10	212.65	0.0021	0.1442	0.0291	0.000	0.051
116500	115399	231.35	88.30	213.65	0.0013	0.1517	0.0251	0.000	0.047
117000	115899	231.00	92.45	214.65	0.0008	0.1602	0.0221	0.000	0.043
117500	116399	230.55	96.55	215.65	0.0005	0.1697	0.0191	0.000	0.040
118000	116899	230.00	100.60	216.65	0.0003	0.1802	0.0161	0.000	0.037
118500	117399	229.35	104.60	217.65	0.0002	0.1917	0.0131	0.000	0.034
119000	117899	228.60	108.55	218.65	0.0001	0.2042	0.0101	0.000	0.031
119500	118399	227.75	112.45	219.65	0.0000	0.2177	0.0071	0.000	0.028
120000	118899	226.80	116.30	220.65	0.0000	0.2322	0.0041	0.000	0.025
120500	119399	225.75	120.10	221.65	0.0000	0.2477	0.0021	0.000	0.022
121000	119899	224.60	123.85	222.65	0.0000	0.2642	0.0011	0.000	0.020
121500	120399	223.35	127.55	223.65	0.0000	0.2817	0.0006	0.000	0.018
122000	120899	222.00	131.20	224.65	0.0000	0.2992	0.0003	0.000	0.016
122500	121399	220.55	134.80	225.65	0.0000	0.3177	0.0002	0.000	0.014
123000	121899	219.00	138.35	226.65	0.0000	0.3372	0.0001	0.000	0.012
123500	122399	217.35	141.85	227.65	0.0000	0.3577	0.0000	0.000	0.010
124000	122899	215.60	145.30	228.65	0.0000	0.3792	0.0000	0.000	0.009
124500	123399	213.75	148.70	229.65	0.0000	0.4017	0.0000	0.000	0.008
125000	123899	211.80	152.05	230.65	0.0000	0.4252	0.0000	0.000	0.007
125500	124399	209.75	155.35	231.65	0.0000	0.4497	0.0000	0.000	0.006
126000	124899	207.60	158.60	232.65	0.0000	0.4752	0.0000	0.000	0.005
126500	125399	205.35	161.80	233.65	0.0000	0.5017	0.0000	0.000	0.004
127000	125899	203.00	164.95	234.65	0.0000	0.5292	0.0000	0.000	0.003
127500	126399	200.55	168.05	235.65	0.0000	0.5577	0.0000	0.000	0.002
128000	126899	198.00	171.10	236.65	0.0000	0.5872	0.0000	0.000	0.001
128500	127399	195.35	174.10	237.65	0.0000	0.6177	0.0000	0.000	0.001
129000	127899	192.60	177.05	238.65	0.0000	0.6492	0.0000	0.000	0.000
129500	128399	189.75	180.00	239.65	0.0000	0.6817	0.0000	0.000	0.000
130000	128899	186.80	182.95	240.65	0.0000	0.7152	0.0000	0.000	0.000
130500	129399	183.75	185.90	241.65	0.0000	0.7497	0.0000	0.000	0.000
131000	129899	180.60	188.80	242.65	0.0000	0.7852	0.0000	0.000	0.000
131500	130399	177.35	191.65	243.65	0.0000	0.8217	0.0000	0.000	0.000
132000	130899	174.00	194.45	244.65	0.0000	0.8592	0.0000	0.000	0.000
132500	131399	170.55	197.20	245.65	0.0000	0.8977	0.0000	0.000	0.000
133000	131899	167.00	200.00	246.65	0.0000	0.9372	0.0000	0.000	0.000
133500	132399	163.35	202.75	247.65	0.0000	0.9777	0.0000	0.000	0.000
134000	132899	159.60	205.45	248.65	0.0000	1.0192	0.0000	0.000	0.000
134500	133399	155.75	208.10	249.65	0.0000	1.0617	0.0000	0.000	0.000
135000	133899	151.80	210.70	250.65	0.0000	1.1052	0.0000	0.000	0.000
135500	134399	147.75	213.25	251.65	0.0000	1.1497	0.0000	0.000	0.000
136000	134899	143.60	215.75	252.65	0.0000	1.1952	0.0000	0.000	0.000
136500	135399	139.35	218.20	253.65	0.0000	1.2417	0.0000	0.000	0.000
137000	135899	135.00	220.60	254.65	0.0000	1.2892	0.0000	0.000	0.000
137500	136399	130.55	222.95	255.65	0.0000	1.3377	0.0000	0.000	0.000
138000	136899	126.00	225.25	256.65	0.0000	1.3872	0.0000	0.000	0.000
138500	137399	121.35	227.50	257.65	0.0000	1.4377	0.0000	0.000	0.000
139000	137899	116.60	229.70	258.65	0.0000	1.4892	0.0000	0.000	0.000
139500	138399	111.75	231.85	259.65	0.0000	1.5417	0.0000	0.000	0.000
140000	138899	106.80	233.95	260.65	0.0000	1.5952	0.0000	0.000	0.000
140500	139399	101.75	236.00	261.65	0.0000	1.6497	0.0000	0.000	0.000
141000	139899	96.60	238.00	262.65	0.0000	1.7052	0.0000	0.000	0.000
141500	140399	91.35	240.00	263.65	0.0000	1.7617	0.0000	0.000	0.000
142000	140899	86.00	242.00	264.65	0.0000	1.8192	0.0000	0.000	0.000
142500	141399	80.55	244.00	265.65	0.0000	1.8777	0.0000	0.000	0.000
143000	141899	75.00	246.00	266.65	0.0000	1.9372	0.0000	0.000	0.000

TABLE I - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
160000	158071	1922.23	749.08	1110.65	3.4443 - 6	2.7709 - 6	3.4480 - 6	1.159 - 9	9.459 -10
161000	157022	1930.37	757.22	1120.65	3.5982	2.4914	3.5413	1.115	9.104
162000	157973	1938.49	765.34	1130.65	3.6863	2.6140	3.4405	1.076	8.768
163000	158924	1946.59	773.46	1140.65	3.7878	2.5411	3.3455	1.044	8.446
164000	159875	1954.67	781.52	1150.65	3.8932	2.4701	3.2501	9.970 -10	8.139
165000	160825	1962.74	789.59	1160.65	3.2019	2.4017	3.1601	9.611	7.845
166000	161775	1970.81	797.64	1170.65	3.1140	2.3357	3.0713	9.267	7.565
167000	162726	1978.90	805.75	1180.65	3.0293	2.2721	2.9837	8.938	7.297
168000	163675	1987.01	813.86	1190.65	2.9475	2.2108	2.9000	8.624	7.040
169000	164622	1995.17	822.02	1200.65	2.8687	2.1517	2.8312	8.323	6.795
170000	165571	1995.51	822.16	1210.65	2.7926 - 6	2.0996 - 6	2.7561 - 6	8.036 -10	6.560 -10
171000	166520	1995.42	822.07	1220.65	2.7191	2.0504	2.6845	7.779	6.350
172000	167468	1995.13	821.85	1230.65	2.6479	1.9981	2.6133	7.532	6.149
173000	168416	1994.82	821.67	1240.65	2.5790	1.9436	2.5453	7.295	5.955
174000	169363	1994.50	821.35	1250.65	2.5123	1.8866	2.4796	7.066	5.768
175000	170310	1994.17	821.02	1260.65	2.4477	1.8359	2.4157	6.845	5.588
176000	171257	1993.82	820.67	1270.65	2.3851	1.7890	2.3539	6.633	5.415
177000	172204	1993.47	820.32	1280.65	2.3245	1.7435	2.2941	6.429	5.248
178000	173150	1993.10	820.00	1290.65	2.2657	1.6994	2.2361	6.231	5.087
179000	174097	1992.72	819.67	1300.65	2.2088	1.6567	2.1799	6.041	4.932
180000	175042	1992.33	819.27	1310.65	2.1536 - 6	1.6153 - 6	2.1256 - 6	5.858 -10	4.782 -10
181000	175988	1991.92	818.87	1320.65	2.1001	1.5752	2.0726	5.682	4.630
182000	176933	1991.50	818.45	1330.65	2.0482	1.5363	2.0216	5.511	4.489
183000	177878	1991.07	818.02	1340.65	1.9979	1.4986	1.9718	5.347	4.356
184000	178823	1990.63	817.59	1350.65	1.9491	1.4620	1.9236	5.189	4.234
185000	179767	1990.17	817.17	1360.65	1.9018	1.4265	1.8769	5.036	4.111
186000	180711	1989.70	816.75	1370.65	1.8559	1.3920	1.8316	4.888	3.990
187000	181655	1989.22	816.32	1380.65	1.8113	1.3586	1.7876	4.746	3.876
188000	182598	1988.73	815.89	1390.65	1.7680	1.3261	1.7449	4.608	3.762
189000	183542	1988.22	815.45	1400.65	1.7260	1.2946	1.7036	4.475	3.653
190000	184485	1987.70	814.98	1410.65	1.6852 - 6	1.2640 - 6	1.6632 - 6	4.347 -10	3.548 -10
191000	185427	1987.17	814.50	1420.65	1.6456	1.2343	1.6241	4.229	3.452
192000	186370	1986.63	814.01	1430.65	1.6070	1.2054	1.5860	4.115	3.359
193000	187312	1986.08	813.51	1440.65	1.5695	1.1773	1.5490	4.004	3.268
194000	188253	1985.52	813.00	1450.65	1.5331	1.1499	1.5130	3.896	3.181
195000	189195	1984.95	812.48	1460.65	1.4976	1.1233	1.4780	3.792	3.096
196000	190136	1984.37	811.95	1470.65	1.4630	1.0974	1.4439	3.692	3.014
197000	191077	1983.78	811.41	1480.65	1.4294	1.0722	1.4107	3.596	2.934
198000	192018	1983.18	810.86	1490.65	1.3967	1.0476	1.3785	3.503	2.854
199000	192958	1982.57	810.30	1500.65	1.3649	1.0237	1.3470	3.407	2.781
200000	193898	1981.95	809.73	1510.65	1.3339 - 6	1.0005 - 6	1.3166 - 6	3.318 -10	2.708 -10
201000	194838	1981.32	809.16	1520.65	1.3037	9.7786 - 7	1.2867	3.231	2.638
202000	195777	1980.68	808.58	1530.65	1.2743	9.5583	1.2577	3.147	2.569
203000	196716	1980.03	807.99	1540.65	1.2457	9.3437	1.2294	3.066	2.502
204000	197655	1979.37	807.39	1550.65	1.2179	9.1347	1.2019	2.986	2.438
205000	198594	1978.70	806.78	1560.65	1.1907	8.9312	1.1752	2.910	2.375
206000	199532	1978.02	806.16	1570.65	1.1643	8.7330	1.1491	2.835	2.314
207000	200470	1977.33	805.53	1580.65	1.1386	8.5398	1.1237	2.761	2.255
208000	201408	1976.63	804.89	1590.65	1.1135	8.3517	1.0989	2.693	2.198
209000	202346	1975.92	804.23	1600.65	1.0890	8.1684	1.0748	2.624	2.142
210000	203283	1975.20	803.56	1610.65	1.0652 - 6	7.9898 - 7	1.0513 - 6	2.558 -10	2.088 -10
211000	204220	1974.47	802.88	1620.65	1.0420	7.8157	1.0284	2.494	2.036
212000	205156	1973.73	802.19	1630.65	1.0194	7.6461	1.0061	2.431	1.985
213000	206093	1972.98	801.49	1640.65	9.9735 - 7	7.4807	9.8431 -10	2.371	1.935
214000	207029	1972.22	800.78	1650.65	9.7586	7.3196	9.6310	2.312	1.887
215000	207966	1971.45	800.06	1660.65	9.5491	7.1624	9.4242	2.254	1.840
216000	208900	1970.67	799.33	1670.65	9.3449	7.0092	9.2227	2.199	1.795
217000	209835	1969.88	798.59	1680.65	9.1457	6.8599	9.0261	2.145	1.751
218000	210770	1969.08	797.83	1690.65	8.9515	6.7142	8.8345	2.092	1.708
219000	211705	1968.27	797.06	1700.65	8.7621	6.5721	8.6476	2.041	1.666
220000	212639	1967.45	796.28	1710.65	8.5776 - 7	6.4336 - 7	8.4653 -10	1.991 -10	1.625 -10
221000	213573	1966.62	795.49	1720.65	8.3973	6.2985	8.2876	1.941	1.586
222000	214507	1965.78	794.69	1730.65	8.2215	6.1666	8.1140	1.896	1.548
223000	215440	1964.93	793.87	1740.65	8.0500	6.0380	7.9468	1.850	1.510
224000	216374	1964.07	793.04	1750.65	7.8827	5.9125	7.7797	1.806	1.474
225000	217306	1963.20	792.19	1760.65	7.7195	5.7901	7.6166	1.763	1.439
226000	218239	1962.32	791.33	1770.65	7.5602	5.6704	7.4566	1.721	1.405
227000	219171	1961.43	790.46	1780.65	7.4048	5.5540	7.3000	1.680	1.371
228000	220104	1960.53	789.58	1790.65	7.2531	5.4402	7.1562	1.640	1.339
229000	221035	1959.62	788.69	1800.65	7.1050	5.3292	7.0121	1.601	1.307
230000	221967	1958.70	787.79	1810.65	6.9604 - 7	5.2207 - 7	6.8694 -10	1.564 -10	1.277 -10
231000	222898	1957.77	786.88	1820.65	6.8193	5.1149	6.7301	1.528	1.247
232000	223829	1956.83	785.95	1830.65	6.6813	5.0116	6.5940	1.493	1.219
233000	224760	1955.88	785.01	1840.65	6.5466	4.9108	6.4610	1.459	1.191
234000	225690	1954.92	784.06	1850.65	6.4150	4.8116	6.3311	1.426	1.164
235000	226620	1953.95	783.10	1860.65	6.2863	4.7151	6.2041	1.394	1.138
236000	227550	1952.97	782.13	1870.65	6.1604	4.6208	6.0801	1.363	1.113
237000	228479	1951.98	781.16	1880.65	6.0378	4.5287	5.9588	1.332	1.088
238000	229409	1950.98	780.18	1890.65	5.9177	4.4387	5.8403	1.303	1.063
239000	230338	1949.97	779.19	1900.65	5.8004	4.3507	5.7245	1.276	1.040

TABLE I.—Continued
 GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
240000	231266	1339.90	1066.75	1590.65	5.6857	4.2644	5.6114	1.265	1.017
241000	231195	1341.67	1068.52	1594.63	5.5736	4.1805	5.5007	1.218	0.940
242000	231123	1343.44	1070.29	1598.61	5.4615	4.0966	5.3924	1.191	0.920
243000	231051	1345.20	1072.05	1602.60	5.3549	4.0180	5.2868	1.164	0.905
244000	230978	1346.95	1073.80	1606.65	5.2521	3.9394	5.1834	1.139	0.894
245000	230905	1348.69	1075.54	1610.68	5.1497	3.8626	5.0824	1.114	0.882
246000	230832	1350.42	1077.27	1614.65	5.0494	3.7875	4.9835	1.089	0.869
247000	230759	1352.15	1079.00	1618.65	4.9514	3.7140	4.8868	1.064	0.860
248000	230686	1353.87	1080.72	1622.65	4.8559	3.6422	4.7924	1.043	0.851
249000	230612	1355.58	1082.43	1626.65	4.7622	3.5720	4.6999	1.020	0.832
250000	240538	1357.28	1084.13	1630.65	4.6704	3.5032	4.6095	0.998	0.815
251000	240463	1358.97	1085.82	1634.65	4.5810	3.4361	4.5211	0.976	0.797
252000	240389	1360.66	1087.51	1638.65	4.4934	3.3703	4.4344	0.953	0.778
253000	240314	1362.35	1089.19	1642.65	4.4077	3.3060	4.3500	0.930	0.761
254000	240238	1364.00	1090.85	1646.65	4.3238	3.2431	4.2673	0.908	0.747
255000	240163	1365.64	1092.51	1650.65	4.2418	3.1814	4.1863	0.885	0.730
256000	240087	1367.31	1094.16	1654.65	4.1615	3.1214	4.1071	0.862	0.715
257000	240011	1368.96	1095.81	1658.65	4.0830	3.0625	4.0296	0.839	0.700
258000	239934	1370.59	1097.44	1662.65	4.0061	3.0048	3.9537	0.816	0.685
259000	239858	1372.22	1099.07	1666.65	3.9309	2.9484	3.8795	0.793	0.670
260000	249781	1373.84	1100.69	1670.65	3.8573	2.8932	3.8069	0.770	0.656
261000	249704	1375.45	1102.30	1674.65	3.7853	2.8392	3.7358	0.747	0.642
262000	249628	1377.06	1103.91	1678.65	3.7148	2.7863	3.6662	0.724	0.629
263000	249551	1378.65	1105.50	1682.65	3.6458	2.7344	3.5981	0.701	0.616
264000	249475	1380.24	1107.09	1686.65	3.5783	2.6839	3.5315	0.678	0.603
265000	249398	1381.82	1108.67	1690.65	3.5122	2.6344	3.4663	0.655	0.590
266000	249321	1383.39	1110.24	1694.65	3.4475	2.5858	3.4024	0.632	0.578
267000	249245	1384.95	1111.80	1698.65	3.3841	2.5383	3.3399	0.609	0.566
268000	249168	1386.50	1113.35	1702.65	3.3221	2.4918	3.2787	0.586	0.554
269000	249092	1388.05	1114.90	1706.65	3.2614	2.4462	3.2187	0.563	0.543
270000	258994	1389.59	1116.44	1710.65	3.2019	2.4016	3.1600	0.540	0.532
271000	258918	1391.12	1117.97	1714.65	3.1437	2.3580	3.1024	0.517	0.521
272000	258841	1392.64	1119.49	1718.65	3.0867	2.3152	3.0463	0.494	0.510
273000	258765	1394.16	1121.01	1722.65	3.0308	2.2733	2.9912	0.471	0.500
274000	258688	1395.66	1122.51	1726.65	2.9761	2.2323	2.9372	0.448	0.490
275000	258612	1397.16	1124.01	1730.65	2.9224	2.1921	2.8844	0.425	0.480
276000	258535	1398.65	1125.50	1734.65	2.8701	2.1528	2.8326	0.402	0.470
277000	258459	1400.14	1126.99	1738.65	2.8187	2.1142	2.7819	0.379	0.460
278000	258382	1401.61	1128.46	1742.65	2.7684	2.0765	2.7322	0.356	0.450
279000	258306	1403.08	1129.93	1746.65	2.7191	2.0395	2.6835	0.333	0.440
280000	268184	1404.54	1131.39	1750.65	2.6708	2.0033	2.6359	0.310	0.430
281000	268108	1406.00	1132.84	1754.65	2.6235	1.9670	2.5892	0.287	0.420
282000	268031	1407.43	1134.28	1758.65	2.5771	1.9313	2.5434	0.264	0.410
283000	267955	1408.87	1135.72	1762.65	2.5317	1.8969	2.4984	0.241	0.400
284000	267878	1410.29	1137.14	1766.65	2.4871	1.8635	2.4544	0.218	0.390
285000	267801	1411.71	1138.56	1770.65	2.4435	1.8308	2.4116	0.195	0.380
286000	267725	1413.13	1139.98	1774.65	2.4008	1.8007	2.3694	0.172	0.370
287000	267648	1414.53	1141.38	1778.65	2.3589	1.7693	2.3280	0.149	0.360
288000	267571	1415.93	1142.78	1782.65	2.3178	1.7385	2.2875	0.126	0.350
289000	267494	1417.32	1144.17	1786.65	2.2774	1.7083	2.2478	0.103	0.340
290000	277344	1418.70	1145.55	1790.65	2.2381	1.6787	2.2088	0.080	0.330
291000	277268	1420.07	1146.92	1794.65	2.1994	1.6497	2.1707	0.057	0.320
292000	277191	1421.44	1148.29	1798.65	2.1615	1.6213	2.1333	0.034	0.310
293000	277115	1422.80	1149.65	1802.65	2.1244	1.5934	2.0966	0.011	0.300
294000	277038	1424.15	1151.00	1806.65	2.0880	1.5661	2.0607	0.008	0.290
295000	276961	1425.50	1152.35	1810.65	2.0522	1.5393	2.0254	0.005	0.280
296000	276884	1426.84	1153.69	1814.65	2.0172	1.5130	1.9908	0.002	0.270
297000	276807	1428.17	1155.02	1818.65	1.9829	1.4873	1.9570	0.001	0.260
298000	276730	1429.49	1156.34	1822.65	1.9492	1.4620	1.9237	0.000	0.250
299000	276653	1430.80	1157.65	1826.65	1.9162	1.4373	1.8912	0.000	0.240
300000	286474	1432.11	1158.96	1830.65	1.8838	1.4130	1.8592	0.000	0.230
301000	286397	1433.41	1160.26	1834.65	1.8520	1.3894	1.8277	0.000	0.220
302000	286320	1434.70	1161.55	1838.65	1.8208	1.3663	1.7966	0.000	0.210
303000	286243	1435.99	1162.84	1842.65	1.7901	1.3437	1.7659	0.000	0.200
304000	286166	1437.28	1164.13	1846.65	1.7600	1.3216	1.7356	0.000	0.190
305000	286089	1438.57	1165.42	1850.65	1.7304	1.3000	1.7057	0.000	0.180
306000	286012	1439.86	1166.71	1854.65	1.7013	1.2789	1.6762	0.000	0.170
307000	285935	1441.15	1168.00	1858.65	1.6727	1.2583	1.6471	0.000	0.160
308000	285858	1442.44	1169.29	1862.65	1.6446	1.2381	1.6184	0.000	0.150
309000	285781	1443.73	1170.58	1866.65	1.6170	1.2183	1.5900	0.000	0.140
310000	285704	1445.02	1171.87	1870.65	1.5900	1.1989	1.5619	0.000	0.130
311000	285627	1446.31	1173.16	1874.65	1.5635	1.1799	1.5342	0.000	0.120
312000	285550	1447.60	1174.45	1878.65	1.5375	1.1613	1.5069	0.000	0.110
313000	285473	1448.89	1175.74	1882.65	1.5120	1.1431	1.4800	0.000	0.100
314000	285396	1450.18	1177.03	1886.65	1.4870	1.1253	1.4535	0.000	0.090
315000	285319	1451.47	1178.32	1890.65	1.4625	1.1079	1.4274	0.000	0.080
316000	285242	1452.76	1179.61	1894.65	1.4385	1.0909	1.4017	0.000	0.070
317000	285165	1454.05	1180.90	1898.65	1.4150	1.0743	1.3764	0.000	0.060
318000	285088	1455.34	1182.19	1902.65	1.3920	1.0581	1.3515	0.000	0.050
319000	285011	1456.63	1183.48	1906.65	1.3695	1.0423	1.3269	0.000	0.040
320000	284934	1457.92	1184.77	1910.65	1.3475	1.0269	1.3026	0.000	0.030
321000	284857	1459.21	1186.06	1914.65	1.3260	1.0119	1.2786	0.000	0.020
322000	284780	1460.50	1187.35	1918.65	1.3050	0.9973	1.2549	0.000	0.010
323000	284703	1461.79	1188.64	1922.65	1.2845	0.9831	1.2315	0.000	0.000
324000	284626	1463.08	1189.93	1926.65	1.2645	0.9693	1.2084	0.000	0.000
325000	284549	1464.37	1191.22	1930.65	1.2450	0.9559	1.1856	0.000	0.000
326000	284472	1465.66	1192.51	1934.65	1.2260	0.9429	1.1631	0.000	0.000
327000	284395	1466.95	1193.80	1938.65	1.2075	0.9303	1.1409	0.000	0.000
328000	284318	1468.24	1195.09	1942.65	1.1895	0.9181	1.1190	0.000	0.000
329000	284241	1469.53	1196.38	1946.65	1.1720	0.9063	1.0974	0.000	0.000
330000	284164	1470.82	1197.67	1950.65	1.1550	0.8949	1.0761	0.000	0.000
331000	284087	1472.11	1198.96	1954.65	1.1385	0.8839	1.0551	0.000	0.000
332000	284010	1473.40	1199.25	1958.65	1.1225	0.8733	1.0344	0.000	0.000
333000	283933	1474.69	1200.54	1962.65	1.1070	0.8631	1.0140	0.000	0.000
334000	283856	1475.98	1201.83	1966.65	1.0920	0.8533	0.9939	0.000	0.000
335000	283779	1477.27	1203.12	1970.65	1.0775	0.8439	0.9741	0.000	0.000
336000	283702	1478.56	1204.41	1974.65	1.0635	0.8349	0.9546	0.000	0.000
337000	283625	1479.85	1205.70	1978.65	1.0500	0.8263	0.9354	0.000	0.000
338000	283548	1481.14	1206.99	1982.65	1.0370	0.8181	0.9165	0.000	0.000
339000	283471	1482.43	1208.28	1986.65	1.0245	0.8103	0.8979	0.000	0.000
340000	283394	1483.72	1209.57	1990.65	1.0125	0.8029	0.8796	0.000	0.000

TABLE I — Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	$\rho, \text{kg m}^{-3}$	$\frac{\rho}{\rho_0}$
340000	322733	1458.23	1185.08	1962.63	9.8014 - 8	7.3516 - 8	9.6732 -11	1.740 -11	1.420 -11
342000	324534	1459.34	1186.19	1969.25	9.6993	7.1251	9.3751	1.667	1.372
344000	326335	1460.45	1187.30	1975.85	9.2077	6.9063	9.0873	1.623	1.325
346000	328136	1461.55	1188.38	1982.45	8.9261	6.6951	8.8094	1.569	1.280
348000	329937	1462.61	1189.46	1989.05	8.6543	6.4912	8.5410	1.516	1.237
350000	331738	1463.67	1190.52	1995.65	8.3915	6.2942	8.2818	1.465	1.194
352000	333539	1464.72	1191.57	2002.25	8.1379	6.1035	8.0315	1.416	1.154
354000	335340	1465.75	1192.60	2008.85	7.8928	5.9201	7.7894	1.369	1.117
356000	337141	1466.78	1193.63	2015.45	7.6560	5.7425	7.5559	1.323	1.080
358000	338942	1467.79	1194.64	2022.05	7.4272	5.5709	7.3501	1.280	1.045
360000	340699	1468.79	1195.64	2028.65	7.2041 - 8	5.4050 - 8	7.1119 -11	1.237 -11	1.010 -11
362000	342499	1469.78	1196.63	2035.25	6.9924	5.2447	6.9009	1.197	9.770 -12
364000	344299	1470.76	1197.61	2041.85	6.7858	5.0897	6.6970	1.158	9.451
366000	346098	1471.74	1198.59	2048.45	6.5860	4.9399	6.4999	1.120	9.143
368000	347898	1472.70	1199.55	2055.05	6.3929	4.7951	6.3093	1.084	8.847
370000	349697	1473.66	1200.51	2061.65	6.2061	4.6550	6.1250	1.049	8.561
372000	351497	1474.61	1201.46	2068.25	6.0255	4.5195	5.9467	1.015	8.285
374000	353297	1475.55	1202.40	2074.85	5.8508	4.3886	5.7742	9.823 -12	8.019
376000	355097	1476.48	1203.33	2081.45	5.6817	4.2616	5.6074	9.509	7.763
378000	356897	1477.41	1204.26	2088.05	5.5182	4.1390	5.4460	9.204	7.515
380000	358699	1478.33	1205.18	2094.65	5.3599 - 8	4.0203 - 8	5.2898 -11	8.914 -12	7.277 -12
382000	360399	1479.25	1206.10	2101.25	5.2068	3.9054	5.1387	8.632	7.047
384000	362199	1480.16	1207.01	2107.85	5.0586	3.7942	4.9924	8.360	6.825
386000	363998	1481.07	1207.92	2114.45	4.9151	3.6864	4.8508	8.098	6.611
388000	365798	1481.98	1208.83	2121.05	4.7762	3.5825	4.7138	7.845	6.404
390000	367598	1482.88	1209.73	2127.65	4.6417	3.4816	4.5810	7.600	6.204
392000	369398	1483.78	1210.63	2134.25	4.5115	3.3839	4.4525	7.364	6.011
394000	371197	1484.68	1211.53	2140.85	4.3854	3.2893	4.3281	7.136	5.825
396000	372997	1485.58	1212.43	2147.45	4.2633	3.1977	4.2075	6.916	5.646
398000	374797	1486.48	1213.33	2154.05	4.1450	3.1090	4.0908	6.704	5.472
400000	376598	1487.38	1214.23	2160.65	4.0304 - 8	3.0230 - 8	3.9777 -11	6.498 -12	5.305 -12
402000	378398	1488.28	1215.14	2167.25	3.9193	2.9397	3.8680	6.304	5.144
404000	380198	1489.18	1216.05	2173.85	3.8114	2.8589	3.7618	6.116	4.993
406000	381998	1490.08	1216.95	2180.45	3.7072	2.7806	3.6587	5.934	4.844
408000	383798	1490.98	1217.86	2187.05	3.6059	2.7047	3.5586	5.758	4.701
410000	385598	1491.88	1218.77	2193.65	3.5077	2.6310	3.4618	5.588	4.562
412000	387398	1492.78	1219.67	2200.25	3.4124	2.5595	3.3678	5.424	4.427
414000	389198	1493.68	1220.58	2206.85	3.3200	2.4902	3.2764	5.264	4.297
416000	390998	1494.58	1221.48	2213.45	3.2304	2.4230	3.1881	5.110	4.171
418000	392798	1495.48	1222.39	2220.05	3.1434	2.3578	3.1023	4.961	4.050
420000	394598	1496.38	1223.30	2226.65	3.0591 - 8	2.2945 - 8	3.0190 -11	4.816 -12	3.932 -12
422000	396398	1497.28	1224.21	2233.25	2.9772	2.2331	2.9382	4.676	3.817
424000	398198	1498.18	1225.12	2239.85	2.8977	2.1735	2.8598	4.541	3.707
426000	399998	1499.08	1226.03	2246.45	2.8206	2.1156	2.7837	4.410	3.600
428000	401798	1499.98	1226.94	2253.05	2.7458	2.0595	2.7095	4.283	3.494
430000	403598	1500.88	1227.85	2259.65	2.6731	2.0050	2.6382	4.160	3.394
432000	405398	1501.78	1228.76	2266.25	2.6024	1.9521	2.5686	4.041	3.299
434000	407198	1502.68	1229.67	2272.85	2.5341	1.9008	2.5010	3.925	3.204
436000	408998	1503.58	1230.58	2279.45	2.4677	1.8509	2.4354	3.813	3.113
438000	410798	1504.48	1231.49	2286.05	2.4031	1.8025	2.3717	3.705	3.025
440000	412598	1505.38	1232.40	2292.65	2.3405 - 8	1.7555 - 8	2.3098 -11	3.600 -12	2.939 -12
442000	414398	1506.28	1233.31	2299.25	2.2796	1.7098	2.2498	3.499	2.854
444000	416198	1507.18	1234.22	2305.85	2.2205	1.6655	2.1914	3.400	2.774
446000	417998	1508.08	1235.13	2312.45	2.1630	1.6224	2.1348	3.305	2.698
448000	419798	1508.98	1236.04	2319.05	2.1073	1.5806	2.0797	3.212	2.622
450000	421598	1509.88	1236.95	2325.65	2.0531	1.5399	2.0262	3.122	2.549
452000	423398	1510.78	1237.86	2332.25	2.0004	1.5005	1.9743	3.035	2.478
454000	425198	1511.68	1238.77	2338.85	1.9493	1.4621	1.9238	2.951	2.409
456000	426998	1512.58	1239.68	2345.45	1.8996	1.4248	1.8747	2.869	2.342
458000	428798	1513.48	1240.59	2352.05	1.8513	1.3886	1.8271	2.790	2.278
460000	430598	1514.38	1241.50	2358.65	1.8043 - 8	1.3534 - 8	1.7808 -11	2.713 -12	2.215 -12
462000	432398	1515.28	1242.41	2365.25	1.7587	1.3192	1.7357	2.639	2.154
464000	434198	1516.18	1243.32	2371.85	1.7144	1.2859	1.6920	2.566	2.095
466000	435998	1517.08	1244.23	2378.45	1.6713	1.2536	1.6494	2.494	2.038
468000	437798	1517.98	1245.14	2385.05	1.6294	1.2221	1.6081	2.428	1.982
470000	439598	1518.88	1246.05	2391.65	1.5886	1.1916	1.5679	2.362	1.928
472000	441398	1519.78	1246.96	2398.25	1.5490	1.1619	1.5288	2.298	1.874
474000	443198	1520.68	1247.87	2404.85	1.5105	1.1330	1.4907	2.236	1.824
476000	444998	1521.58	1248.78	2411.45	1.4730	1.1049	1.4538	2.176	1.774
478000	446798	1522.48	1249.69	2418.05	1.4366	1.0775	1.4178	2.118	1.729
480000	448598	1523.38	1250.60	2424.65	1.4012 - 8	1.0510 - 8	1.3829 -11	2.061 -12	1.682 -12
482000	450398	1524.28	1251.51	2431.25	1.3667	1.0251	1.3489	2.006	1.637
484000	452198	1525.18	1252.42	2437.85	1.3332	9.9999 - 9	1.3158	1.952	1.594
486000	453998	1526.08	1253.33	2444.45	1.3006	9.7553	1.2836	1.900	1.551
488000	455798	1526.98	1254.24	2451.05	1.2689	9.5173	1.2523	1.850	1.510
490000	457598	1527.88	1255.15	2457.65	1.2380	9.2858	1.2218	1.801	1.470
492000	459398	1528.78	1256.06	2464.25	1.2080	9.0605	1.1922	1.754	1.431
494000	461198	1529.68	1256.97	2470.85	1.1787	8.8413	1.1633	1.707	1.394
496000	462998	1530.58	1257.88	2477.45	1.1503	8.6280	1.1353	1.663	1.357
498000	464798	1531.48	1258.79	2484.05	1.1224	8.4204	1.1079	1.619	1.322

TABLE I.—Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Temperature			Pressure			Density	
Z, in	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
500000	463524	1499.22	1224.07	2420.65	1.0957	8.2183	1.0814	1.577	1.287
502000	463244	1498.80	1223.65	2424.05	1.0404	8.0215	1.0555	1.537	1.255
504000	462964	1498.40	1223.25	2427.45	1.0439	7.8298	1.0302	1.498	1.223
506000	462684	1498.02	1222.87	2430.85	1.0190	7.6431	1.0057	1.460	1.192
508000	462404	1497.66	1222.49	2434.25	9.9476	7.4612	9.8173	1.424	1.162
510000	462124	1497.35	1222.20	2437.65	9.7111	7.2839	9.5841	1.388	1.133
512000	461844	1497.05	1221.80	2441.05	9.4809	7.1112	9.3569	1.353	1.105
514000	461564	1496.78	1221.43	2444.45	9.2565	6.9430	9.1355	1.319	1.077
516000	461284	1496.53	1221.30	2447.85	9.0379	6.7790	8.9197	1.286	1.050
518000	461004	1496.30	1221.15	2451.25	8.8249	6.6192	8.7095	1.254	1.024
520000	460724	1496.10	1221.95	2454.65	8.6173	6.4635	8.5046	1.223	9.983
522000	460444	1495.93	1221.78	2458.05	8.4149	6.3117	8.3049	1.193	9.756
524000	460164	1495.78	1221.63	2461.45	8.2177	6.1638	8.1103	1.163	9.534
526000	459884	1495.65	1221.50	2464.85	8.0255	6.0197	7.9206	1.134	9.259
528000	459604	1495.55	1221.40	2468.25	7.8382	5.8791	7.7357	1.104	9.031
530000	459324	1495.47	1221.32	2471.65	7.6556	5.7422	7.5555	1.079	8.808
532000	459044	1495.42	1221.27	2475.05	7.4774	5.6086	7.3798	1.052	8.592
534000	458764	1495.39	1221.24	2478.45	7.3040	5.4765	7.2085	1.027	8.381
536000	458484	1495.38	1221.23	2481.85	7.1349	5.3458	7.0416	1.001	8.175
538000	458204	1495.40	1221.25	2485.25	6.9699	5.2279	6.8788	9.770	7.975
540000	457924	1495.44	1221.29	2488.65	6.8091	5.1072	6.7200	9.532	7.781
542000	457644	1495.51	1221.36	2492.05	6.6523	4.9894	6.5653	9.299	7.591
544000	457364	1495.59	1221.44	2495.45	6.4994	4.8749	6.4144	9.073	7.407
546000	457084	1495.70	1221.55	2498.85	6.3502	4.7631	6.2672	8.853	7.227
548000	456804	1495.84	1221.69	2502.25	6.2048	4.6540	6.1237	8.639	7.052
550000	456524	1495.99	1221.84	2505.65	6.0630	4.5477	5.9838	8.430	6.881
552000	456244	1496.17	1222.02	2509.05	5.9247	4.4439	5.8473	8.226	6.715
554000	455964	1496.34	1222.21	2512.45	5.7898	4.3427	5.7141	8.026	6.553
556000	455684	1496.58	1222.43	2515.85	5.6583	4.2441	5.5843	7.835	6.396
558000	455404	1496.82	1222.67	2519.25	5.5300	4.1478	5.4576	7.647	6.242
560000	455124	1497.09	1222.94	2522.65	5.4048	4.0539	5.3341	7.464	6.093
562000	454844	1497.37	1223.22	2526.05	5.2827	3.9623	5.2136	7.285	5.947
564000	454564	1497.67	1223.52	2529.45	5.1635	3.8730	5.0960	7.111	5.805
566000	454284	1497.99	1223.84	2532.85	5.0473	3.7858	4.9813	6.942	5.667
568000	454004	1498.33	1224.18	2536.25	4.9339	3.7008	4.8694	6.777	5.532
570000	453724	1498.69	1224.54	2539.65	4.8233	3.6178	4.7602	6.616	5.401
572000	453444	1499.07	1224.92	2543.05	4.7154	3.5368	4.6537	6.459	5.273
574000	453164	1499.47	1225.32	2546.45	4.6100	3.4578	4.5497	6.307	5.148
576000	452884	1499.88	1225.73	2549.85	4.5072	3.3807	4.4483	6.158	5.027
578000	452604	1500.32	1226.17	2553.25	4.4069	3.3055	4.3493	6.013	4.908
580000	452324	1500.77	1226.62	2556.65	4.3091	3.2321	4.2527	5.872	4.793
582000	452044	1501.24	1227.09	2560.05	4.2135	3.1604	4.1588	5.734	4.681
584000	451764	1501.72	1227.57	2563.45	4.1203	3.0905	4.0664	5.599	4.571
586000	451484	1502.22	1228.07	2566.85	4.0293	3.0222	3.9766	5.468	4.464
588000	451204	1502.73	1228.58	2570.25	3.9405	2.9556	3.8889	5.341	4.360
590000	450924	1503.27	1229.12	2573.65	3.8538	2.8904	3.8034	5.216	4.258
592000	450644	1503.81	1229.68	2577.05	3.7691	2.8271	3.7198	5.095	4.159
594000	450364	1504.37	1230.22	2580.45	3.6865	2.7651	3.6383	4.977	4.063
596000	450084	1504.94	1230.79	2583.85	3.6058	2.7046	3.5587	4.862	3.969
598000	449804	1505.53	1231.38	2587.25	3.5271	2.6455	3.4810	4.749	3.877
600000	449524	1506.13	1231.98	2590.65	3.4502	2.5879	3.4051	4.640	3.787
602000	449244	1506.74	1232.59	2594.05	3.3751	2.5316	3.3310	4.535	3.702
604000	448964	1507.37	1233.22	2597.45	3.3018	2.4765	3.2586	4.432	3.618
606000	448684	1508.01	1233.74	2600.85	3.2301	2.4228	3.1879	4.333	3.537
608000	448404	1508.67	1234.27	2604.25	3.1601	2.3703	3.1188	4.235	3.457
610000	448124	1509.33	1234.80	2607.65	3.0917	2.3190	3.0513	4.140	3.380
612000	447844	1509.99	1235.34	2611.05	3.0249	2.2689	2.9854	4.047	3.304
614000	447564	1510.67	1235.84	2614.45	2.9597	2.2199	2.9210	3.956	3.230
616000	447284	1511.35	1236.34	2617.85	2.8959	2.1721	2.8580	3.868	3.157
618000	447004	1512.04	1236.85	2621.25	2.8334	2.1253	2.7965	3.781	3.087
620000	446724	1512.74	1237.34	2624.65	2.7727	2.0797	2.7364	3.697	3.018
622000	446444	1513.45	1237.84	2628.05	2.7132	2.0350	2.6777	3.615	2.951
624000	446164	1514.17	1238.34	2631.45	2.6550	1.9914	2.6203	3.534	2.885
626000	445884	1514.90	1238.85	2634.85	2.5982	1.9488	2.5642	3.456	2.821
628000	445604	1515.65	1239.35	2638.25	2.5427	1.9072	2.5094	3.379	2.758
630000	445324	1516.40	1239.85	2641.65	2.4884	1.8665	2.4559	3.304	2.697
632000	445044	1517.17	1240.34	2645.05	2.4354	1.8267	2.4036	3.231	2.638
634000	444764	1517.94	1240.84	2648.45	2.3836	1.7878	2.3524	3.160	2.579
636000	444484	1518.72	1241.34	2651.85	2.3329	1.7498	2.3024	3.090	2.522
638000	444204	1519.51	1241.84	2655.25	2.2834	1.7127	2.2536	3.022	2.467
640000	443924	1520.30	1242.34	2658.65	2.2350	1.6764	2.2058	2.955	2.412
642000	443644	1521.10	1242.84	2662.05	2.1877	1.6409	2.1591	2.889	2.359
644000	443364	1521.90	1243.34	2665.45	2.1415	1.6063	2.1135	2.827	2.308
646000	443084	1522.70	1243.84	2668.85	2.0963	1.5724	2.0689	2.765	2.257
648000	442804	1523.50	1244.34	2672.25	2.0521	1.5392	2.0253	2.704	2.208
650000	442524	1524.30	1244.84	2675.65	2.0090	1.5068	1.9827	2.643	2.159
652000	442244	1525.10	1245.34	2679.05	1.9667	1.4752	1.9410	2.588	2.112
654000	441964	1525.90	1245.84	2682.45	1.9255	1.4442	1.9003	2.531	2.066
656000	441684	1526.70	1246.34	2685.85	1.8851	1.4139	1.8605	2.474	2.021
658000	441404	1527.50	1246.84	2689.25	1.8457	1.3844	1.8215	2.422	1.977

TABLE I—Concluded
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Temperature			Pressure			Density	
Z, m	H, m	T, °K	t, °C	T _M , °K	P, mb	P, mm Hg	$\frac{P}{P_0}$	ρ , kg m ⁻³	$\frac{\rho}{\rho_0}$
660000	597892	1507.14	1233.99	2656.65	1.8071 - 9	1.3554 - 9	1.7635 -12	2.370 -15	1.934 -13
662000	599532	1507.22	1234.07	2658.85	1.7894	1.3271	1.7462	2.318	1.892
664000	601172	1507.30	1234.15	2661.05	1.7325	1.2995	1.7098	2.268	1.851
666000	602811	1507.37	1234.22	2663.25	1.6964	1.2724	1.6743	2.219	1.811
668000	604449	1507.43	1234.28	2665.45	1.6612	1.2460	1.6395	2.171	1.772
670000	606086	1507.50	1234.35	2667.65	1.6267	1.2201	1.6054	2.124	1.734
672000	607722	1507.55	1234.40	2669.85	1.5930	1.1946	1.5722	2.079	1.697
674000	609357	1507.61	1234.46	2672.05	1.5600	1.1701	1.5396	2.034	1.660
676000	610991	1507.65	1234.50	2674.25	1.5278	1.1459	1.5078	1.990	1.623
678000	612625	1507.69	1234.54	2676.45	1.4962	1.1223	1.4767	1.948	1.590
680000	614257	1507.73	1234.58	2678.65	1.4654 - 9	1.0991 - 9	1.4462 -12	1.906 -13	1.556 -13
682000	615889	1507.75	1234.60	2680.85	1.4352	1.0765	1.4165	1.865	1.523
684000	617519	1507.77	1234.62	2683.05	1.4057	1.0544	1.3874	1.825	1.490
686000	619149	1507.79	1234.64	2685.25	1.3769	1.0327	1.3589	1.786	1.458
688000	620777	1507.79	1234.64	2687.45	1.3487	1.0116	1.3310	1.748	1.427
690000	622405	1507.78	1234.63	2689.65	1.3210	9.9087 -10	1.3038	1.711	1.397
692000	624032	1507.77	1234.62	2691.85	1.2940	9.7061	1.2771	1.675	1.367
694000	625658	1507.75	1234.60	2694.05	1.2676	9.5079	1.2510	1.639	1.338
696000	627283	1507.71	1234.56	2696.25	1.2418	9.3161	1.2255	1.604	1.310
698000	628907	1507.67	1234.52	2698.45	1.2165	9.1245	1.2006	1.570	1.282
700000	630530	1507.61	1234.46	2700.65	1.1918 - 9	8.9390 -10	1.1762 -12	1.537 -13	1.255 -13

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Table II

ACCELERATION DUE TO GRAVITY, SPECIFIC WEIGHT, PRESSURE SCALE
HEIGHT, NUMBER DENSITY, PARTICLE SPEED, COLLISION FREQUENCY,
MEAN FREE PATH, AND MOLECULAR WEIGHT

Metric Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE II
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m/sec}^2$	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
-5000	-4998	9.8221	1.8961 * 1	9371.1	4.0160 * 25	484.14	1.1503 * 10	4.2089 - 8	28.964
-4950	-4948	9.8219	1.8979	9361.7	3.9967	483.89	1.1467	4.2271	28.964
-4900	-4898	9.8218	1.8798	9352.4	3.9795	483.64	1.1392	4.2454	28.964
-4850	-4848	9.8216	1.8716	9343.0	3.9623	483.40	1.1337	4.2638	28.964
-4800	-4798	9.8215	1.8635	9333.7	3.9452	483.15	1.1283	4.2822	28.964
-4750	-4748	9.8213	1.8554	9324.3	3.9282	482.91	1.1228	4.3009	28.964
-4700	-4697	9.8212	1.8474	9315.0	3.9112	482.66	1.1174	4.3194	28.964
-4650	-4647	9.8210	1.8393	9305.6	3.8942	482.41	1.1120	4.3384	28.964
-4600	-4597	9.8208	1.8313	9296.3	3.8773	482.17	1.1066	4.3573	28.964
-4550	-4547	9.8207	1.8233	9286.9	3.8605	481.92	1.1012	4.3763	28.964
-4500	-4497	9.8205	1.8154 * 1	9277.5	3.8437 * 25	481.68	1.0959 * 10	4.3954 - 8	28.964
-4450	-4447	9.8204	1.8075	9268.2	3.8270	481.43	1.0905	4.4146	28.964
-4400	-4397	9.8202	1.7996	9258.8	3.8103	481.18	1.0852	4.4339	28.964
-4350	-4347	9.8201	1.7917	9249.5	3.7937	480.93	1.0799	4.4535	28.964
-4300	-4297	9.8199	1.7838	9240.1	3.7772	480.69	1.0747	4.4729	28.964
-4250	-4247	9.8198	1.7760	9230.8	3.7607	480.44	1.0694	4.4925	28.964
-4200	-4197	9.8196	1.7682	9221.4	3.7442	480.19	1.0642	4.5122	28.964
-4150	-4147	9.8195	1.7605	9212.1	3.7278	479.95	1.0590	4.5320	28.964
-4100	-4097	9.8193	1.7527	9202.7	3.7115	479.70	1.0538	4.5520	28.964
-4050	-4047	9.8192	1.7450	9193.4	3.6952	479.45	1.0487	4.5720	28.964
-4000	-3997	9.8190	1.7373 * 1	9184.0	3.6790 * 25	479.20	1.0435 * 10	4.5922 - 8	28.964
-3950	-3948	9.8188	1.7296	9174.6	3.6628	478.95	1.0384	4.6125	28.964
-3900	-3898	9.8187	1.7220	9165.3	3.6467	478.71	1.0333	4.6329	28.964
-3850	-3848	9.8185	1.7144	9155.9	3.6306	478.46	1.0282	4.6534	28.964
-3800	-3798	9.8184	1.7068	9146.6	3.6146	478.21	1.0231	4.6740	28.964
-3750	-3748	9.8182	1.6993	9137.2	3.5987	477.96	1.0181	4.6947	28.964
-3700	-3697	9.8181	1.6917	9127.8	3.5828	477.71	1.0131	4.7155	28.964
-3650	-3648	9.8179	1.6842	9118.5	3.5669	477.46	1.0081	4.7365	28.964
-3600	-3598	9.8178	1.6767	9109.1	3.5511	477.22	1.0031	4.7575	28.964
-3550	-3548	9.8176	1.6693	9100.8	3.5354	476.97	9.9811 * 9	4.7787	28.964
-3500	-3498	9.8175	1.6618 * 1	9090.4	3.5197 * 25	476.72	9.9554 * 9	4.8000 - 8	28.964
-3450	-3448	9.8173	1.6544	9081.1	3.5041	476.47	9.9293	4.8214	28.964
-3400	-3398	9.8171	1.6470	9071.7	3.4885	476.22	9.9032	4.8430	28.964
-3350	-3348	9.8170	1.6397	9062.3	3.4730	475.97	9.8783	4.8644	28.964
-3300	-3298	9.8168	1.6326	9053.0	3.4575	475.72	9.8536	4.8864	28.964
-3250	-3248	9.8167	1.6251	9043.6	3.4421	475.47	9.8291	4.9083	28.964
-3200	-3198	9.8165	1.6178	9034.2	3.4267	475.22	9.8048	4.9303	28.964
-3150	-3148	9.8164	1.6105	9024.9	3.4114	474.97	9.7807	4.9524	28.964
-3100	-3098	9.8162	1.6033	9015.5	3.3961	474.72	9.7567	4.9747	28.964
-3050	-3048	9.8161	1.5961	9006.2	3.3809	474.47	9.7320	4.9971	28.964
-3000	-2999	9.8159	1.5889 * 1	8996.8	3.3658 * 25	474.22	9.7074 * 9	5.0194 - 8	28.964
-2950	-2949	9.8158	1.5817	8987.4	3.3507	473.97	9.6831	5.0422	28.964
-2900	-2899	9.8156	1.5746	8978.1	3.3356	473.72	9.6589	5.0649	28.964
-2850	-2849	9.8154	1.5675	8968.7	3.3206	473.47	9.6350	5.0878	28.964
-2800	-2799	9.8153	1.5604	8959.3	3.3056	473.22	9.6111	5.1108	28.964
-2750	-2749	9.8151	1.5534	8950.0	3.2908	472.97	9.5874	5.1340	28.964
-2700	-2699	9.8150	1.5463	8940.6	3.2759	472.71	9.5640	5.1573	28.964
-2650	-2649	9.8148	1.5393	8931.3	3.2611	472.46	9.5409	5.1807	28.964
-2600	-2599	9.8147	1.5323	8921.9	3.2464	472.21	9.5177	5.2042	28.964
-2550	-2549	9.8145	1.5254	8912.5	3.2317	471.96	9.4948	5.2278	28.964
-2500	-2499	9.8144	1.5184 * 1	8903.2	3.2170 * 25	471.71	9.4721 * 9	5.2516 - 8	28.964
-2450	-2449	9.8142	1.5115	8893.8	3.2024	471.46	9.4494	5.2754	28.964
-2400	-2399	9.8141	1.5046	8884.4	3.1879	471.20	9.4269	5.2994	28.964
-2350	-2349	9.8139	1.4978	8875.1	3.1734	470.95	9.4046	5.3238	28.964
-2300	-2299	9.8137	1.4909	8865.7	3.1590	470.70	9.3821	5.3482	28.964
-2250	-2249	9.8136	1.4841	8856.3	3.1446	470.45	9.3598	5.3728	28.964
-2200	-2199	9.8134	1.4773	8847.0	3.1302	470.19	9.3377	5.3973	28.964
-2150	-2149	9.8133	1.4706	8837.6	3.1159	469.94	9.3157	5.4220	28.964
-2100	-2099	9.8131	1.4638	8828.2	3.1017	469.69	9.2938	5.4469	28.964
-2050	-2049	9.8130	1.4571	8818.9	3.0875	469.44	9.2720	5.4719	28.964
-2000	-1999	9.8128	1.4504 * 1	8809.5	3.0734 * 25	469.18	9.2501 * 9	5.4971 - 8	28.964
-1950	-1949	9.8127	1.4437	8800.1	3.0593	468.93	9.2284	5.5224	28.964
-1900	-1899	9.8125	1.4371	8790.7	3.0452	468.68	9.2069	5.5479	28.964
-1850	-1849	9.8124	1.4305	8781.4	3.0312	468.42	9.1854	5.5735	28.964
-1800	-1799	9.8122	1.4239	8772.0	3.0173	468.17	9.1641	5.5993	28.964
-1750	-1749	9.8121	1.4173	8762.6	3.0034	467.92	9.1429	5.6252	28.964
-1700	-1699	9.8119	1.4107	8753.3	2.9896	467.66	9.1218	5.6512	28.964
-1650	-1649	9.8117	1.4042	8743.9	2.9758	467.41	9.1009	5.6774	28.964
-1600	-1599	9.8116	1.3977	8734.5	2.9620	467.15	9.0803	5.7038	28.964
-1550	-1550	9.8114	1.3912	8725.2	2.9483	466.90	9.0600	5.7303	28.964
-1500	-1500	9.8113	1.3847 * 1	8715.8	2.9347 * 25	466.64	9.0400 * 9	5.7569 - 8	28.964
-1450	-1449	9.8111	1.3783	8706.4	2.9211	466.39	9.0200	5.7837	28.964
-1400	-1399	9.8110	1.3719	8697.0	2.9075	466.14	9.0020	5.8107	28.964
-1350	-1349	9.8108	1.3655	8687.7	2.8940	465.89	8.9840	5.8378	28.964
-1300	-1299	9.8107	1.3591	8678.3	2.8806	465.63	8.9660	5.8651	28.964
-1250	-1249	9.8105	1.3528	8668.9	2.8671	465.37	8.9487	5.8925	28.964
-1200	-1199	9.8104	1.3464	8659.6	2.8538	465.11	8.9314	5.9201	28.964
-1150	-1149	9.8102	1.3401	8650.2	2.8405	464.86	8.9144	5.9478	28.964
-1100	-1099	9.8100	1.3339	8640.8	2.8272	464.60	8.8974	5.9758	28.964
-1050	-1050	9.8099	1.3276	8631.4	2.8140	464.35	8.8804	6.0038	28.964

TABLE II

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity g, msec^{-2}	Specific weight $w, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
-3000	-5004	9.8221	1.0908 + 1	9371.8	4.0154 +25	484.75	1.1507 +10	4.2075 - 8	28.964
-4050	-6954	9.8219	1.0886	9362.4	3.9981	483.91	1.1452	4.2157	28.964
-4600	-7504	9.8218	1.0864	9353.1	3.9808	483.44	1.1394	4.2448	28.964
-4650	-7554	9.8216	1.0822	9343.7	3.9636	483.43	1.1341	4.2624	28.964
-4660	-7564	9.8215	1.0841	9334.3	3.9463	483.17	1.1286	4.2818	28.964
-4750	-7654	9.8213	1.0540	9325.0	3.9294	482.92	1.1232	4.2996	28.964
-4760	-7664	9.8212	1.0479	9315.6	3.9123	482.68	1.1177	4.3181	28.964
-4850	-7754	9.8210	1.0399	9306.2	3.8954	482.43	1.1123	4.3371	28.964
-4860	-7764	9.8209	1.0319	9296.9	3.8784	482.18	1.1069	4.3560	28.964
-4850	-7754	9.8207	1.0239	9287.5	3.8616	481.94	1.1014	4.3751	28.964
-4500	-6503	9.8206	1.0159 + 1	9278.1	3.8448 +25	481.69	1.0962 +10	4.3942 - 8	28.964
-4650	-6653	9.8204	1.0066	9268.9	3.8282	481.44	1.0909	4.4134	28.964
-4660	-6663	9.8202	1.0002	9259.4	3.8115	481.20	1.0856	4.4327	28.964
-4750	-6753	9.8201	1.7922	9250.0	3.7947	480.95	1.0803	4.4522	28.964
-4800	-6803	9.8199	1.7843	9240.7	3.7781	480.70	1.0750	4.4717	28.964
-4850	-6853	9.8198	1.7765	9231.3	3.7616	480.45	1.0697	4.4914	28.964
-4900	-6903	9.8196	1.7687	9221.9	3.7451	480.21	1.0645	4.5111	28.964
-4950	-6953	9.8195	1.7609	9212.6	3.7287	479.96	1.0593	4.5310	28.964
-4960	-6963	9.8193	1.7531	9203.2	3.7123	479.71	1.0541	4.5509	28.964
-4950	-6953	9.8192	1.7454	9193.8	3.6960	479.46	1.0489	4.5710	28.964
-4000	-6003	9.8190	1.7377 + 1	9184.5	3.6798 +25	479.22	1.0436 +10	4.5912 - 8	28.964
-4950	-5953	9.8189	1.7300	9175.1	3.6636	478.97	1.0384	4.6115	28.964
-4960	-5963	9.8187	1.7224	9165.7	3.6475	478.72	1.0335	4.6319	28.964
-4950	-5953	9.8185	1.7148	9156.4	3.6316	478.47	1.0286	4.6524	28.964
-4960	-5963	9.8184	1.7072	9147.0	3.6156	478.22	1.0238	4.6730	28.964
-4950	-5953	9.8182	1.6996	9137.6	3.5996	477.97	1.0189	4.6936	28.964
-4960	-5963	9.8181	1.6920	9128.3	3.5835	477.72	1.0133	4.7146	28.964
-4950	-5953	9.8179	1.6845	9118.9	3.5676	477.46	1.0083	4.7356	28.964
-4960	-5963	9.8178	1.6770	9109.5	3.5518	477.23	1.0033	4.7567	28.964
-4950	-5953	9.8176	1.6696	9100.1	3.5360	476.98	9.9830 + 9	4.7779	28.964
-3500	-3502	9.8175	1.6621 + 1	9090.8	3.5203 +25	476.73	9.9335 + 9	4.7992 - 8	28.964
-3650	-3652	9.8173	1.6547	9081.4	3.5047	476.48	9.8841	4.8204	28.964
-3660	-3662	9.8171	1.6473	9072.0	3.4891	476.23	9.8350	4.8422	28.964
-3650	-3652	9.8170	1.6400	9062.7	3.4735	475.98	9.7860	4.8640	28.964
-3660	-3662	9.8168	1.6326	9053.3	3.4580	475.73	9.7373	4.8854	28.964
-3650	-3652	9.8167	1.6254	9043.9	3.4426	475.48	9.6887	4.9075	28.964
-3660	-3662	9.8165	1.6180	9034.6	3.4272	475.23	9.6404	4.9296	28.964
-3650	-3652	9.8164	1.6107	9025.2	3.4119	474.98	9.5922	4.9517	28.964
-3660	-3662	9.8162	1.6035	9015.8	3.3964	474.73	9.5442	4.9740	28.964
-3650	-3652	9.8161	1.5963	9006.4	3.3816	474.48	9.4964	4.9964	28.964
-3000	-3001	9.8159	1.5891 + 1	8997.1	3.3662 +25	474.23	9.4488 + 9	5.0189 - 8	28.964
-2950	-2951	9.8158	1.5819	8987.7	3.3511	473.98	9.4013	5.0416	28.964
-2960	-2961	9.8156	1.5748	8978.3	3.3360	473.72	9.3541	5.0643	28.964
-2950	-2951	9.8155	1.5677	8969.0	3.3210	473.47	9.3071	5.0872	28.964
-2960	-2961	9.8153	1.5606	8959.6	3.3060	473.22	9.2602	5.1103	28.964
-2950	-2951	9.8151	1.5535	8950.2	3.2911	472.97	9.2136	5.1334	28.964
-2960	-2961	9.8150	1.5465	8940.8	3.2762	472.72	9.1671	5.1567	28.964
-2950	-2951	9.8148	1.5395	8931.5	3.2616	472.47	9.1208	5.1801	28.964
-2960	-2961	9.8147	1.5325	8922.1	3.2467	472.22	9.0747	5.2037	28.964
-2950	-2951	9.8145	1.5255	8912.7	3.2320	471.96	9.0287	5.2274	28.964
-2500	-2501	9.8144	1.5184 + 1	8903.3	3.2173 +25	471.71	8.9830 + 9	5.2512 - 8	28.964
-2450	-2451	9.8142	1.5117	8894.0	3.2027	471.46	8.9376	5.2751	28.964
-2460	-2461	9.8141	1.5048	8884.6	3.1882	471.21	8.8921	5.2992	28.964
-2450	-2451	9.8139	1.4979	8875.2	3.1736	470.96	8.8469	5.3234	28.964
-2460	-2461	9.8138	1.4911	8865.8	3.1592	470.70	8.8019	5.3478	28.964
-2450	-2451	9.8136	1.4842	8856.5	3.1448	470.45	8.7570	5.3723	28.964
-2460	-2461	9.8134	1.4774	8847.1	3.1306	470.20	8.7124	5.3969	28.964
-2450	-2451	9.8133	1.4707	8837.7	3.1161	469.95	8.6679	5.4217	28.964
-2460	-2461	9.8131	1.4639	8828.4	3.1019	469.69	8.6237	5.4464	28.964
-2450	-2451	9.8130	1.4572	8819.0	3.0877	469.44	8.5795	5.4716	28.964
-2000	-2001	9.8128	1.4505 + 1	8809.6	3.0735 +25	469.19	8.5356 + 9	5.4968 - 8	28.964
-1950	-1951	9.8127	1.4438	8800.2	3.0594	468.93	8.4919	5.5221	28.964
-1960	-1961	9.8125	1.4372	8790.9	3.0454	468.68	8.4483	5.5476	28.964
-1950	-1951	9.8124	1.4305	8781.5	3.0316	468.43	8.4049	5.5732	28.964
-1960	-1961	9.8122	1.4239	8772.1	3.0177	468.17	8.3617	5.5989	28.964
-1950	-1951	9.8121	1.4173	8762.7	3.0039	467.92	8.3187	5.6249	28.964
-1960	-1961	9.8119	1.4106	8753.4	2.9907	467.66	8.2758	5.6510	28.964
-1950	-1951	9.8117	1.4040	8744.0	2.9775	467.41	8.2331	5.6772	28.964
-1960	-1961	9.8116	1.3977	8734.6	2.9642	467.16	8.1906	5.7036	28.964
-1950	-1951	9.8114	1.3912	8725.2	2.9504	466.90	8.1483	5.7301	28.964
-1500	-1500	9.8113	1.3848 + 1	8715.9	2.9368 +25	466.65	8.1061 + 9	5.7567 - 8	28.964
-1450	-1451	9.8111	1.3783	8706.5	2.9232	466.39	8.0641	5.7834	28.964
-1460	-1461	9.8110	1.3719	8697.1	2.9097	466.14	8.0223	5.8105	28.964
-1450	-1451	9.8108	1.3655	8687.7	2.8964	465.88	7.9806	5.8377	28.964
-1460	-1461	9.8107	1.3591	8678.3	2.8836	465.63	7.9392	5.8649	28.964
-1450	-1451	9.8105	1.3528	8668.9	2.8702	465.37	7.8979	5.8924	28.964
-1460	-1461	9.8104	1.3465	8659.6	2.8568	465.12	7.8567	5.9200	28.964
-1450	-1451	9.8102	1.3402	8650.2	2.8435	464.86	7.8156	5.9477	28.964
-1460	-1461	9.8100	1.3339	8640.8	2.8303	464.60	7.7750	5.9754	28.964
-1450	-1451	9.8099	1.3276	8631.5	2.8170	464.35	7.7343	6.0033	28.964

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m sec}^{-2}$	Specific weight $\gamma, \text{kg m}^{-3} \text{sec}^{-1}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{V}, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
-1000	-1000	9.8097	1.2214 * 1	8622.1	2.0000 * 25	866.09	7.6938 * 9	6.0320 - 8	28.964
-950	-950	9.8094	1.2212	8612.7	2.7877	863.86	7.6535	6.0605	28.964
-900	-900	9.8091	1.2210	8603.3	2.7766	863.58	7.6134	6.0880	28.964
-850	-850	9.8088	1.2208	8593.9	2.7654	863.32	7.5734	6.1178	28.964
-800	-800	9.8085	1.2206	8584.6	2.7543	863.07	7.5337	6.1467	28.964
-750	-750	9.8082	1.2204	8575.2	2.7432	862.81	7.4940	6.1757	28.964
-700	-700	9.8079	1.2202	8565.8	2.7320	862.55	7.4546	6.2050	28.964
-650	-650	9.8077	1.2200	8556.4	2.7209	862.30	7.4153	6.2344	28.964
-600	-600	9.8074	1.2198	8547.1	2.7097	862.04	7.3762	6.2639	28.964
-550	-550	9.8071	1.2196	8537.7	2.6986	861.78	7.3372	6.2937	28.964
-500	-500	9.8068	1.2194	8528.3	2.6875	861.53	7.2980	6.3236	28.964
-450	-450	9.8065	1.2192	8518.9	2.6764	861.27	7.2590	6.3537	28.964
-400	-400	9.8062	1.2190	8509.5	2.6654	861.01	7.2213	6.3840	28.964
-350	-350	9.8059	1.2188	8500.2	2.6543	860.75	7.1830	6.4145	28.964
-300	-300	9.8056	1.2186	8490.8	2.6433	860.49	7.1449	6.4451	28.964
-250	-250	9.8053	1.2184	8481.4	2.6322	860.23	7.1069	6.4759	28.964
-200	-200	9.8050	1.2182	8472.0	2.6212	859.98	7.0691	6.5069	28.964
-150	-150	9.8047	1.2180	8462.6	2.6101	859.72	7.0314	6.5381	28.964
-100	-100	9.8044	1.2178	8453.3	2.5991	859.46	6.9939	6.5695	28.964
-50	-50	9.8041	1.2176	8443.9	2.5880	859.20	6.9565	6.6010	28.964
0	0	9.8038	1.2174	8434.5	2.5770	858.94	6.9193	6.6328	28.964
50	50	9.8035	1.2172	8425.1	2.5660	858.69	6.8823	6.6647	28.964
100	100	9.8032	1.2170	8415.7	2.5550	858.43	6.8454	6.6968	28.964
150	150	9.8029	1.2168	8406.3	2.5440	858.17	6.8087	6.7292	28.964
200	200	9.8026	1.2166	8397.0	2.5330	857.91	6.7721	6.7617	28.964
250	250	9.8023	1.2164	8387.6	2.5220	857.65	6.7357	6.7944	28.964
300	300	9.8020	1.2162	8378.2	2.5110	857.39	6.6995	6.8273	28.964
350	350	9.8017	1.2160	8368.8	2.5000	857.13	6.6635	6.8604	28.964
400	400	9.8014	1.2158	8359.5	2.4890	856.87	6.6274	6.8936	28.964
450	450	9.8011	1.2156	8350.1	2.4780	856.61	6.5916	6.9271	28.964
500	500	9.8008	1.2154	8340.7	2.4670	856.35	6.5560	6.9608	28.964
550	550	9.8005	1.2152	8331.3	2.4560	856.09	6.5205	6.9947	28.964
600	600	9.8002	1.2150	8321.9	2.4450	855.83	6.4851	7.0288	28.964
650	650	9.8000	1.2148	8312.5	2.4340	855.57	6.4499	7.0631	28.964
700	700	9.7997	1.2146	8303.2	2.4230	855.31	6.4149	7.0976	28.964
750	750	9.7994	1.2144	8293.8	2.4120	855.05	6.3800	7.1326	28.964
800	800	9.7991	1.2142	8284.4	2.4010	854.79	6.3453	7.1673	28.964
850	850	9.7988	1.2140	8275.0	2.3900	854.53	6.3107	7.2026	28.964
900	900	9.7985	1.2138	8265.6	2.3790	854.26	6.2762	7.2378	28.964
950	950	9.7982	1.2136	8256.2	2.3680	854.00	6.2420	7.2734	28.964
1000	1000	9.7979	1.2134	8246.8	2.3570	853.74	6.2078	7.3092	28.964
1050	1050	9.7976	1.2132	8237.5	2.3460	853.48	6.1738	7.3452	28.964
1100	1100	9.7973	1.2130	8228.1	2.3350	853.21	6.1400	7.3814	28.964
1150	1150	9.7970	1.2128	8218.7	2.3240	852.95	6.1063	7.4178	28.964
1200	1200	9.7967	1.2126	8209.3	2.3130	852.69	6.0727	7.4545	28.964
1250	1250	9.7964	1.2124	8200.0	2.3020	852.43	6.0393	7.4914	28.964
1300	1300	9.7961	1.2122	8190.6	2.2910	852.17	6.0061	7.5285	28.964
1350	1350	9.7958	1.2120	8181.2	2.2800	851.90	5.9729	7.5658	28.964
1400	1400	9.7955	1.2118	8171.8	2.2690	851.64	5.9400	7.6034	28.964
1450	1450	9.7952	1.2116	8162.3	2.2580	851.38	5.9071	7.6412	28.964
1500	1500	9.7949	1.2114	8152.9	2.2470	851.11	5.8746	7.6793	28.964
1550	1550	9.7946	1.2112	8143.5	2.2360	850.85	5.8419	7.7175	28.964
1600	1600	9.7943	1.2110	8134.1	2.2250	850.59	5.8095	7.7560	28.964
1650	1650	9.7940	1.2108	8124.7	2.2140	850.32	5.7772	7.7948	28.964
1700	1700	9.7937	1.2106	8115.3	2.2030	850.06	5.7451	7.8338	28.964
1750	1750	9.7934	1.2104	8105.9	2.1920	849.79	5.7131	7.8730	28.964
1800	1800	9.7931	1.2102	8096.5	2.1810	849.53	5.6813	7.9124	28.964
1850	1850	9.7928	1.2100	8087.1	2.1700	849.27	5.6496	7.9522	28.964
1900	1900	9.7925	1.2098	8077.7	2.1590	849.00	5.6181	7.9921	28.964
1950	1950	9.7922	1.2096	8068.3	2.1480	848.74	5.5866	8.0323	28.964
2000	2000	9.7919	1.2094	8058.9	2.1370	848.47	5.5551	8.0728	28.964
2050	2050	9.7916	1.2092	8049.5	2.1260	848.21	5.5242	8.1135	28.964
2100	2100	9.7913	1.2090	8040.1	2.1150	847.94	5.4932	8.1544	28.964
2150	2150	9.7910	1.2088	8030.7	2.1040	847.68	5.4624	8.1957	28.964
2200	2200	9.7907	1.2086	8021.3	2.0930	847.41	5.4316	8.2371	28.964
2250	2250	9.7904	1.2084	8011.9	2.0820	847.15	5.4011	8.2789	28.964
2300	2300	9.7901	1.2082	8002.5	2.0710	846.88	5.3706	8.3209	28.964
2350	2350	9.7898	1.2080	7993.1	2.0600	846.61	5.3403	8.3631	28.964
2400	2400	9.7895	1.2078	7983.7	2.0490	846.35	5.3101	8.4054	28.964
2450	2450	9.7892	1.2076	7974.3	2.0380	846.08	5.2801	8.4480	28.964
2500	2500	9.7889	1.2074	7964.9	2.0270	845.82	5.2501	8.4915	28.964
2550	2550	9.7886	1.2072	7955.5	2.0160	845.55	5.2204	8.5348	28.964
2600	2600	9.7883	1.2070	7946.1	2.0050	845.28	5.1907	8.5786	28.964
2650	2650	9.7880	1.2068	7936.7	1.9940	845.02	5.1612	8.6223	28.964
2700	2700	9.7877	1.2066	7927.3	1.9830	844.75	5.1318	8.6665	28.964
2750	2750	9.7874	1.2064	7917.9	1.9720	844.48	5.1026	8.7109	28.964
2800	2800	9.7871	1.2062	7908.5	1.9610	844.21	5.0735	8.7556	28.964
2850	2850	9.7868	1.2060	7899.1	1.9500	843.95	5.0445	8.8006	28.964
2900	2900	9.7865	1.2058	7889.7	1.9390	843.68	5.0156	8.8459	28.964
2950	2950	9.7862	1.2056	7880.3	1.9280	843.41	4.9869	8.8915	28.964

TABLE II - Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\gamma, kg/m^3 \cdot sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
-1000	-1000	9.8097	1.3214 * 1	8622.1	2.0000 * 25	466.00	7.4938 * 9	6.0320 - 8	28.964
-950	-950	9.8096	1.3152	8612.7	2.7877	465.94	7.4554	6.0404	28.964
-900	-900	9.8095	1.3090	8603.5	2.7766	465.50	7.4135	6.0487	28.964
-850	-850	9.8094	1.3028	8594.5	2.7654	465.32	7.3725	6.0577	28.964
-800	-800	9.8093	1.2967	8585.6	2.7544	465.07	7.3337	6.0663	28.964
-750	-750	9.8092	1.2905	8575.2	2.7435	464.81	7.2961	6.0757	28.964
-700	-700	9.8091	1.2844	8565.0	2.7328	464.55	7.2597	6.0849	28.964
-650	-650	9.8090	1.2784	8554.4	2.7220	464.30	7.2245	6.0943	28.964
-600	-600	9.8089	1.2723	8543.7	2.7117	464.04	7.1900	6.1040	28.964
-550	-550	9.8088	1.2663	8532.9	2.7014	463.78	7.1573	6.1137	28.964
-500	-500	9.8087	1.2603	8522.3	2.6917	463.51	7.1255	6.1236	28.964
-450	-450	9.8086	1.2543	8511.9	2.6820	463.27	7.0948	6.1337	28.964
-400	-400	9.8085	1.2483	8501.5	2.6724	463.01	7.0647	6.1440	28.964
-350	-350	9.8084	1.2423	8491.2	2.6628	462.75	7.0350	6.1545	28.964
-300	-300	9.8083	1.2363	8480.9	2.6533	462.49	7.0059	6.1653	28.964
-250	-250	9.8082	1.2303	8470.4	2.6438	462.24	6.9770	6.1764	28.964
-200	-200	9.8081	1.2244	8459.8	2.6344	461.98	6.9487	6.1877	28.964
-150	-150	9.8080	1.2184	8449.2	2.6250	461.72	6.9204	6.1993	28.964
-100	-100	9.8079	1.2125	8438.5	2.6157	461.46	6.8929	6.2110	28.964
-50	-50	9.8078	1.2067	8427.9	2.6064	461.20	6.8653	6.2230	28.964
0	0	9.8077	1.2011	8417.5	2.5971	460.94	6.8383	6.2350	28.964
50	50	9.8076	1.1955	8407.1	2.5879	460.69	6.8113	6.2477	28.964
100	100	9.8075	1.1899	8396.7	2.5788	460.43	6.7848	6.2607	28.964
150	150	9.8074	1.1843	8386.4	2.5697	460.17	6.7587	6.2732	28.964
200	200	9.8073	1.1788	8376.0	2.5606	459.91	6.7327	6.2861	28.964
250	250	9.8072	1.1732	8365.4	2.5516	459.65	6.7067	6.2993	28.964
300	300	9.8071	1.1677	8354.8	2.5426	459.39	6.6807	6.3127	28.964
350	350	9.8070	1.1621	8344.2	2.5337	459.13	6.6547	6.3263	28.964
400	400	9.8069	1.1566	8333.5	2.5248	458.87	6.6287	6.3400	28.964
450	450	9.8068	1.1511	8322.9	2.5159	458.61	6.6027	6.3537	28.964
500	500	9.8067	1.1455	8312.3	2.5071	458.35	6.5767	6.3677	28.964
550	550	9.8066	1.1399	8301.7	2.4983	458.09	6.5507	6.3817	28.964
600	600	9.8065	1.1343	8291.2	2.4896	457.83	6.5247	6.3959	28.964
650	650	9.8064	1.1287	8280.6	2.4809	457.57	6.4989	6.4103	28.964
700	700	9.8063	1.1231	8270.0	2.4722	457.31	6.4731	6.4247	28.964
750	750	9.8062	1.1175	8259.4	2.4636	457.05	6.4473	6.4393	28.964
800	800	9.8061	1.1119	8248.8	2.4550	456.79	6.4215	6.4540	28.964
850	850	9.8060	1.1063	8238.2	2.4464	456.53	6.3957	6.4687	28.964
900	900	9.8059	1.1007	8227.6	2.4378	456.27	6.3700	6.4837	28.964
950	950	9.8058	1.0952	8217.0	2.4293	456.00	6.3443	6.4987	28.964
1000	1000	9.8057	1.0896	8206.4	2.4208	455.74	6.3187	6.5137	28.964
1050	1050	9.8056	1.0840	8195.8	2.4123	455.48	6.2931	6.5287	28.964
1100	1100	9.8055	1.0784	8185.2	2.4038	455.22	6.2675	6.5437	28.964
1150	1150	9.8054	1.0728	8174.6	2.3953	454.96	6.2419	6.5587	28.964
1200	1200	9.8053	1.0672	8164.0	2.3868	454.70	6.2163	6.5737	28.964
1250	1250	9.8052	1.0616	8153.4	2.3783	454.44	6.1907	6.5887	28.964
1300	1300	9.8051	1.0560	8142.8	2.3698	454.18	6.1651	6.6037	28.964
1350	1350	9.8050	1.0504	8132.2	2.3613	453.92	6.1395	6.6187	28.964
1400	1400	9.8049	1.0448	8121.6	2.3528	453.66	6.1139	6.6337	28.964
1450	1450	9.8048	1.0392	8111.0	2.3443	453.40	6.0883	6.6487	28.964
1500	1500	9.8047	1.0336	8100.4	2.3358	453.14	6.0627	6.6637	28.964
1550	1550	9.8046	1.0280	8089.8	2.3273	452.88	6.0371	6.6787	28.964
1600	1600	9.8045	1.0224	8079.2	2.3188	452.62	6.0115	6.6937	28.964
1650	1650	9.8044	1.0168	8068.6	2.3103	452.36	5.9859	6.7087	28.964
1700	1700	9.8043	1.0112	8058.0	2.3018	452.10	5.9603	6.7237	28.964
1750	1750	9.8042	1.0056	8047.4	2.2933	451.84	5.9347	6.7387	28.964
1800	1800	9.8041	1.0000	8036.8	2.2848	451.58	5.9091	6.7537	28.964
1850	1850	9.8040	0.9944	8026.2	2.2763	451.32	5.8835	6.7687	28.964
1900	1900	9.8039	0.9888	8015.6	2.2678	451.06	5.8579	6.7837	28.964
1950	1950	9.8038	0.9832	8005.0	2.2593	450.80	5.8323	6.7987	28.964
2000	2000	9.8037	0.9776	7994.4	2.2508	450.54	5.8067	6.8137	28.964
2050	2050	9.8036	0.9720	7983.8	2.2423	450.28	5.7811	6.8287	28.964
2100	2100	9.8035	0.9664	7973.2	2.2338	450.02	5.7555	6.8437	28.964
2150	2150	9.8034	0.9608	7962.6	2.2253	449.76	5.7299	6.8587	28.964
2200	2200	9.8033	0.9552	7952.0	2.2168	449.50	5.7043	6.8737	28.964
2250	2250	9.8032	0.9496	7941.4	2.2083	449.24	5.6787	6.8887	28.964
2300	2300	9.8031	0.9440	7930.8	2.1998	448.98	5.6531	6.9037	28.964
2350	2350	9.8030	0.9384	7920.2	2.1913	448.72	5.6275	6.9187	28.964
2400	2400	9.8029	0.9328	7909.6	2.1828	448.46	5.6019	6.9337	28.964
2450	2450	9.8028	0.9272	7899.0	2.1743	448.20	5.5763	6.9487	28.964
2500	2500	9.8027	0.9216	7888.4	2.1658	447.94	5.5507	6.9637	28.964
2550	2550	9.8026	0.9160	7877.8	2.1573	447.68	5.5251	6.9787	28.964
2600	2600	9.8025	0.9104	7867.2	2.1488	447.42	5.4995	6.9937	28.964
2650	2650	9.8024	0.9048	7856.6	2.1403	447.16	5.4739	7.0087	28.964
2700	2700	9.8023	0.8992	7846.0	2.1318	446.90	5.4483	7.0237	28.964
2750	2750	9.8022	0.8936	7835.4	2.1233	446.64	5.4227	7.0387	28.964
2800	2800	9.8021	0.8880	7824.8	2.1148	446.38	5.3971	7.0537	28.964
2850	2850	9.8020	0.8824	7814.2	2.1063	446.12	5.3715	7.0687	28.964
2900	2900	9.8019	0.8768	7803.6	2.0978	445.86	5.3459	7.0837	28.964
2950	2950	9.8018	0.8712	7793.0	2.0893	445.60	5.3203	7.0987	28.964

TABLE II.—Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $w, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
3000	3001	9.7976	8.9270 + 0	7671.1	1.0983 +25	443.14	4.9583 + 9	8.7374 - 8	28.964
3050	3051	9.7972	8.9270 + 0	7661.7	1.0984	442.00	4.9299	8.9835	28.964
3100	3102	9.7971	8.9154	7652.3	1.0709	442.61	4.9015	9.0500	28.964
3150	3153	9.7969	8.9038	7642.9	1.0433	442.34	4.8733	9.0747	28.964
3204	3202	9.7968	8.9038	7633.6	1.0317	442.07	4.8452	9.1238	28.964
3250	3252	9.7966	8.8793	7624.2	1.0022	441.80	4.8173	9.1712	28.964
3300	3302	9.7965	8.8548	7614.8	1.0324	441.53	4.7895	9.2168	28.964
3350	3352	9.7963	8.8548	7605.4	1.0131	441.26	4.7618	9.2660	28.964
3400	3402	9.7962	8.8548	7596.0	1.0137	440.99	4.7342	9.3150	28.964
3450	3452	9.7960	8.8548	7586.5	1.0043	440.72	4.7068	9.3616	28.964
3500	3502	9.7959	8.8541 + 0	7577.1	1.7969 +25	440.45	4.6795 + 9	9.4125 - 8	28.964
3550	3552	9.7957	8.8119	7567.7	1.7854	440.19	4.6523	9.4617	28.964
3600	3602	9.7955	8.8119	7558.3	1.7743	439.92	4.6252	9.5115	28.964
3650	3652	9.7954	8.8119	7548.9	1.7670	439.65	4.5983	9.5611	28.964
3700	3702	9.7952	8.8119	7539.5	1.7578	439.37	4.5714	9.6113	28.964
3750	3752	9.7951	8.8119	7530.1	1.7488	439.10	4.5447	9.6618	28.964
3800	3802	9.7949	8.8119	7520.7	1.7395	438.83	4.5182	9.7126	28.964
3850	3852	9.7948	8.8119	7511.3	1.7303	438.56	4.4917	9.7638	28.964
3900	3902	9.7946	8.8119	7501.9	1.7213	438.29	4.4654	9.8153	28.964
3950	3952	9.7945	8.8119	7492.5	1.7122	438.02	4.4392	9.8671	28.964
4000	4003	9.7943	8.8228 + 0	7483.1	1.7032 +25	437.75	4.4131 + 9	9.9193 - 8	28.964
4050	4053	9.7942	8.8228 + 0	7473.7	1.6942	437.48	4.3872	9.9718	28.964
4100	4103	9.7940	8.8228 + 0	7464.3	1.6853	437.21	4.3615	1.0025 - 7	28.964
4150	4153	9.7938	8.8228 + 0	7454.9	1.6764	436.93	4.3358	1.0078	28.964
4200	4203	9.7937	8.8228 + 0	7445.5	1.6676	436.66	4.3100	1.0131	28.964
4250	4253	9.7935	8.8228 + 0	7436.1	1.6587	436.39	4.2845	1.0185	28.964
4300	4303	9.7934	8.8228 + 0	7426.7	1.6499	436.12	4.2592	1.0240	28.964
4350	4353	9.7932	8.8228 + 0	7417.3	1.6412	435.85	4.2339	1.0296	28.964
4400	4403	9.7931	8.8228 + 0	7407.9	1.6323	435.57	4.2088	1.0354	28.964
4450	4453	9.7929	8.8228 + 0	7398.5	1.6234	435.30	4.1838	1.0404	28.964
4500	4503	9.7928	8.8228 + 0	7389.1	1.6151 +25	435.03	4.1589 + 9	1.0460 - 7	28.964
4550	4553	9.7926	8.8228 + 0	7379.7	1.6065	434.75	4.1341	1.0516	28.964
4600	4603	9.7925	8.8228 + 0	7370.3	1.5980	434.48	4.1095	1.0573	28.964
4650	4653	9.7923	8.8228 + 0	7360.9	1.5894	434.21	4.0849	1.0629	28.964
4700	4703	9.7922	8.8228 + 0	7351.4	1.5809	433.93	4.0605	1.0687	28.964
4750	4754	9.7920	8.8228 + 0	7342.0	1.5724	433.66	4.0362	1.0744	28.964
4800	4804	9.7918	8.8228 + 0	7332.6	1.5640	433.39	4.0120	1.0802	28.964
4850	4854	9.7917	8.8228 + 0	7323.2	1.5554	433.11	3.9880	1.0861	28.964
4900	4904	9.7915	8.8228 + 0	7313.8	1.5472	432.84	3.9640	1.0919	28.964
4950	4954	9.7914	8.8228 + 0	7304.4	1.5389	432.56	3.9401	1.0978	28.964
5000	5004	9.7912	8.8228 + 0	7295.0	1.5306 +25	432.29	3.9164 + 9	1.1038 - 7	28.964
5050	5054	9.7911	8.8228 + 0	7285.6	1.5223	432.01	3.8928	1.1098	28.964
5100	5104	9.7909	8.8228 + 0	7276.2	1.5141	431.74	3.8693	1.1158	28.964
5150	5154	9.7908	8.8228 + 0	7266.7	1.5059	431.46	3.8459	1.1219	28.964
5200	5204	9.7906	8.8228 + 0	7257.3	1.4978	431.19	3.8226	1.1280	28.964
5250	5254	9.7905	8.8228 + 0	7247.9	1.4896	430.91	3.7994	1.1342	28.964
5300	5304	9.7903	8.8228 + 0	7238.5	1.4815	430.64	3.7764	1.1404	28.964
5350	5353	9.7901	8.8228 + 0	7229.1	1.4733	430.36	3.7534	1.1466	28.964
5400	5403	9.7900	8.8228 + 0	7219.7	1.4654	430.08	3.7304	1.1529	28.964
5450	5453	9.7898	8.8228 + 0	7210.3	1.4575	429.81	3.7078	1.1592	28.964
5500	5503	9.7897	8.8228 + 0	7200.9	1.4495 +25	429.53	3.6852 + 9	1.1656 - 7	28.964
5550	5553	9.7895	8.8228 + 0	7191.4	1.4416	429.26	3.6627	1.1720	28.964
5600	5603	9.7894	8.8228 + 0	7182.0	1.4337	428.98	3.6403	1.1784	28.964
5650	5653	9.7892	8.8228 + 0	7172.6	1.4258	428.70	3.6180	1.1849	28.964
5700	5703	9.7891	8.8228 + 0	7163.2	1.4180	428.42	3.5958	1.1915	28.964
5750	5753	9.7889	8.8228 + 0	7153.8	1.4102	428.15	3.5737	1.1980	28.964
5800	5803	9.7888	8.8228 + 0	7144.4	1.4024	427.87	3.5518	1.2047	28.964
5850	5853	9.7886	8.8228 + 0	7135.0	1.3947	427.59	3.5299	1.2113	28.964
5900	5903	9.7885	8.8228 + 0	7125.6	1.3870	427.31	3.5081	1.2181	28.964
5950	5954	9.7883	8.8228 + 0	7116.1	1.3793	427.04	3.4865	1.2248	28.964
6000	6004	9.7881	8.8228 + 0	7106.7	1.3717 +25	426.76	3.4649 + 9	1.2317 - 7	28.964
6050	6054	9.7880	8.8228 + 0	7097.3	1.3641	426.48	3.4435	1.2385	28.964
6100	6104	9.7878	8.8228 + 0	7087.9	1.3565	426.20	3.4221	1.2454	28.964
6150	6154	9.7877	8.8228 + 0	7078.5	1.3490	425.92	3.4009	1.2524	28.964
6200	6204	9.7875	8.8228 + 0	7069.1	1.3415	425.64	3.3798	1.2594	28.964
6250	6254	9.7874	8.8228 + 0	7059.7	1.3340	425.36	3.3588	1.2664	28.964
6300	6304	9.7872	8.8228 + 0	7050.3	1.3266	425.08	3.3378	1.2735	28.964
6350	6354	9.7871	8.8228 + 0	7040.9	1.3192	424.80	3.3170	1.2807	28.964
6400	6404	9.7869	8.8228 + 0	7031.4	1.3118	424.53	3.2963	1.2879	28.964
6450	6457	9.7868	8.8228 + 0	7022.0	1.3045	424.25	3.2757	1.2951	28.964
6500	6507	9.7866	8.8228 + 0	7012.5	1.2972 +25	423.97	3.2552 + 9	1.3024 - 7	28.964
6550	6553	9.7864	8.8228 + 0	7003.1	1.2899	423.68	3.2348	1.3098	28.964
6600	6607	9.7863	8.8228 + 0	6993.7	1.2826	423.40	3.2145	1.3172	28.964
6650	6657	9.7861	8.8228 + 0	6984.3	1.2754	423.12	3.1942	1.3246	28.964
6700	6707	9.7860	8.8228 + 0	6974.9	1.2682	422.84	3.1741	1.3322	28.964
6750	6757	9.7858	8.8228 + 0	6965.4	1.2611	422.56	3.1541	1.3397	28.964
6800	6807	9.7857	8.8228 + 0	6956.0	1.2539	422.28	3.1342	1.3473	28.964
6850	6857	9.7855	8.8228 + 0	6946.6	1.2468	422.00	3.1146	1.3550	28.964
6900	6907	9.7854	8.8228 + 0	6937.2	1.2398	421.72	3.0951	1.3627	28.964
6950	6950	9.7852	8.8228 + 0	6927.8	1.2328	421.44	3.0751	1.3705	28.964

TABLE II - Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_r, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
3000	2999	9.7974	8.9083 + 0	7871.4	1.8906 +25	443.15	4.9501 + 9	8.9361 - 8	28.964
3050	3049	9.7972	8.9025	7862.0	1.8899	442.88	4.9507	8.9322	28.964
3100	3098	9.7971	8.8968	7852.6	1.8892	442.62	4.9514	8.9284	28.964
3150	3148	9.7969	8.8911	7843.2	1.8885	442.35	4.9521	8.9246	28.964
3200	3198	9.7968	8.8854	7833.9	1.8878	442.08	4.9528	8.9208	28.964
3250	3248	9.7966	8.8797	7824.5	1.8871	441.81	4.9535	8.9170	28.964
3300	3298	9.7965	8.8740	7815.1	1.8864	441.54	4.9542	8.9132	28.964
3350	3349	9.7963	8.8683	7805.7	1.8857	441.27	4.9549	8.9094	28.964
3400	3398	9.7962	8.8626	7796.3	1.8850	441.00	4.9556	8.9056	28.964
3450	3448	9.7960	8.8569	7786.9	1.8843	440.73	4.9563	8.9018	28.964
3500	3498	9.7959	8.8512	7777.5	1.7953 +25	440.47	4.9570	8.8980	28.964
3550	3548	9.7957	8.8455	7768.1	1.7959	440.20	4.9577	8.8942	28.964
3600	3598	9.7956	8.8398	7758.7	1.7967	439.93	4.9584	8.8904	28.964
3650	3648	9.7954	8.8341	7749.3	1.7974	439.66	4.9591	8.8866	28.964
3700	3698	9.7952	8.8284	7739.9	1.7982	439.39	4.9598	8.8828	28.964
3750	3748	9.7951	8.8227	7730.5	1.7990	439.12	4.9605	8.8790	28.964
3800	3798	9.7949	8.8170	7721.2	1.7997	438.85	4.9612	8.8752	28.964
3850	3848	9.7948	8.8113	7711.8	1.7998	438.58	4.9619	8.8714	28.964
3900	3898	9.7946	8.8056	7702.4	1.7999	438.31	4.9626	8.8676	28.964
3950	3948	9.7945	8.8000	7693.0	1.7997	438.03	4.9633	8.8638	28.964
4000	3997	9.7943	8.7943	7683.6	1.7997 +25	437.76	4.9640	8.8600	28.964
4050	4047	9.7942	8.7886	7674.2	1.7997	437.49	4.9647	8.8562	28.964
4100	4097	9.7940	8.7829	7664.8	1.7998	437.22	4.9654	8.8524	28.964
4150	4147	9.7939	8.7772	7655.4	1.7999	436.95	4.9661	8.8486	28.964
4200	4197	9.7937	8.7715	7646.0	1.7999	436.68	4.9668	8.8448	28.964
4250	4247	9.7935	8.7658	7636.6	1.7999	436.41	4.9675	8.8410	28.964
4300	4297	9.7934	8.7601	7627.2	1.7999	436.13	4.9682	8.8372	28.964
4350	4347	9.7932	8.7544	7617.8	1.7999	435.86	4.9689	8.8334	28.964
4400	4397	9.7931	8.7487	7608.5	1.7999	435.59	4.9696	8.8296	28.964
4450	4447	9.7929	8.7430	7599.1	1.7999	435.32	4.9703	8.8258	28.964
4500	4497	9.7928	8.7373	7589.7	1.7999 +25	435.05	4.9710	8.8220	28.964
4550	4547	9.7926	8.7316	7580.3	1.7999	434.77	4.9717	8.8182	28.964
4600	4597	9.7925	8.7259	7570.9	1.7999	434.50	4.9724	8.8144	28.964
4650	4647	9.7923	8.7202	7561.5	1.7999	434.23	4.9731	8.8106	28.964
4700	4697	9.7922	8.7145	7552.1	1.7999	433.95	4.9738	8.8068	28.964
4750	4746	9.7920	8.7088	7542.7	1.7999	433.68	4.9745	8.8030	28.964
4800	4796	9.7919	8.7031	7533.3	1.7999	433.41	4.9752	8.7992	28.964
4850	4846	9.7917	8.6974	7523.9	1.7999	433.13	4.9759	8.7954	28.964
4900	4896	9.7915	8.6917	7514.5	1.7999	432.86	4.9766	8.7916	28.964
4950	4946	9.7914	8.6860	7505.1	1.7999	432.58	4.9773	8.7878	28.964
5000	4996	9.7912	8.6803	7495.7	1.7999 +25	432.31	4.9780	8.7840	28.964
5050	5046	9.7911	8.6746	7486.3	1.7999	432.04	4.9787	8.7802	28.964
5100	5096	9.7909	8.6689	7476.9	1.7999	431.76	4.9794	8.7764	28.964
5150	5146	9.7908	8.6632	7467.5	1.7999	431.49	4.9801	8.7726	28.964
5200	5196	9.7906	8.6575	7458.1	1.7999	431.21	4.9808	8.7688	28.964
5250	5246	9.7905	8.6518	7448.7	1.7999	430.94	4.9815	8.7650	28.964
5300	5296	9.7903	8.6461	7439.3	1.7999	430.66	4.9822	8.7612	28.964
5350	5346	9.7902	8.6404	7429.9	1.7999	430.39	4.9829	8.7574	28.964
5400	5396	9.7900	8.6347	7420.5	1.7999	430.11	4.9836	8.7536	28.964
5450	5446	9.7899	8.6290	7411.2	1.7999	429.83	4.9843	8.7498	28.964
5500	5496	9.7897	8.6233	7401.8	1.7999 +25	429.56	4.9850	8.7460	28.964
5550	5546	9.7895	8.6176	7392.4	1.7999	429.28	4.9857	8.7422	28.964
5600	5596	9.7894	8.6119	7383.0	1.7999	429.01	4.9864	8.7384	28.964
5650	5646	9.7892	8.6062	7373.6	1.7999	428.73	4.9871	8.7346	28.964
5700	5696	9.7891	8.6005	7364.2	1.7999	428.45	4.9878	8.7308	28.964
5750	5746	9.7889	8.5948	7354.8	1.7999	428.18	4.9885	8.7270	28.964
5800	5796	9.7888	8.5891	7345.4	1.7999	427.90	4.9892	8.7232	28.964
5850	5846	9.7886	8.5834	7336.0	1.7999	427.62	4.9899	8.7194	28.964
5900	5896	9.7885	8.5777	7326.6	1.7999	427.34	4.9906	8.7156	28.964
5950	5946	9.7883	8.5720	7317.2	1.7999	427.07	4.9913	8.7118	28.964
6000	5996	9.7882	8.5663	7307.8	1.7999 +25	426.79	4.9920	8.7080	28.964
6050	6046	9.7880	8.5606	7298.4	1.7999	426.51	4.9927	8.7042	28.964
6100	6096	9.7879	8.5549	7289.0	1.7999	426.23	4.9934	8.7004	28.964
6150	6146	9.7877	8.5492	7279.6	1.7999	425.95	4.9941	8.6966	28.964
6200	6196	9.7875	8.5435	7270.2	1.7999	425.68	4.9948	8.6928	28.964
6250	6246	9.7874	8.5378	7260.8	1.7999	425.40	4.9955	8.6890	28.964
6300	6296	9.7872	8.5321	7251.4	1.7999	425.12	4.9962	8.6852	28.964
6350	6346	9.7871	8.5264	7242.0	1.7999	424.84	4.9969	8.6814	28.964
6400	6396	9.7869	8.5207	7232.6	1.7999	424.56	4.9976	8.6776	28.964
6450	6446	9.7868	8.5150	7223.2	1.7999	424.28	4.9983	8.6738	28.964
6500	6496	9.7866	8.5093	7213.8	1.7999 +25	424.00	4.9990	8.6700	28.964
6550	6546	9.7865	8.5036	7204.4	1.7999	423.72	4.9997	8.6662	28.964
6600	6596	9.7863	8.4979	7195.0	1.7999	423.44	4.9999	8.6624	28.964
6650	6646	9.7862	8.4922	7185.6	1.7999	423.16	4.9999	8.6586	28.964
6700	6696	9.7860	8.4865	7176.2	1.7999	422.88	4.9999	8.6548	28.964
6750	6746	9.7859	8.4808	7166.8	1.7999	422.60	4.9999	8.6510	28.964
6800	6796	9.7857	8.4751	7157.4	1.7999	422.32	4.9999	8.6472	28.964
6850	6846	9.7855	8.4694	7148.0	1.7999	422.04	4.9999	8.6434	28.964
6900	6896	9.7854	8.4637	7138.6	1.7999	421.76	4.9999	8.6396	28.964
6950	6946	9.7852	8.4580	7129.2	1.7999	421.48	4.9999	8.6358	28.964

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
7000	7000	9.7851	5.7693 + 0	7118.3	1.2257 +25	421.15	3.0556 + 9	1.3725 - 7	28.964
7050	7050	9.7849	5.7354	7108.9	1.2188	420.87	3.0562	1.3862	28.964
7100	7100	9.7848	5.7026	7099.5	1.2118	420.59	3.0568	1.3941	28.964
7150	7150	9.7846	5.6700	7090.1	1.2049	420.31	2.9976	1.4021	28.964
7200	7200	9.7844	5.6376	7080.6	1.1980	420.02	2.9785	1.4102	28.964
7250	7250	9.7843	5.6052	7071.2	1.1912	419.74	2.9595	1.4183	28.964
7300	7300	9.7841	5.5731	7061.8	1.1844	419.46	2.9405	1.4265	28.964
7350	7350	9.7840	5.5410	7052.4	1.1774	419.18	2.9217	1.4347	28.964
7400	7400	9.7838	5.5091	7043.0	1.1708	418.89	2.9030	1.4430	28.964
7450	7450	9.7837	5.4774	7033.5	1.1641	418.61	2.8843	1.4513	28.964
7500	7500	9.7835	5.4457 + 0	7024.1	1.1574 +25	418.32	2.8658 + 9	1.4597 - 7	28.964
7550	7550	9.7834	5.4143	7014.7	1.1507	418.04	2.8473	1.4682	28.964
7600	7600	9.7832	5.3829	7005.3	1.1441	417.76	2.8290	1.4767	28.964
7650	7650	9.7831	5.3517	6995.8	1.1375	417.47	2.8107	1.4853	28.964
7700	7700	9.7829	5.3207	6986.4	1.1309	417.19	2.7925	1.4939	28.964
7750	7750	9.7827	5.2897	6977.0	1.1243	416.90	2.7744	1.5027	28.964
7800	7800	9.7826	5.2590	6967.5	1.1178	416.62	2.7564	1.5114	28.964
7850	7850	9.7824	5.2283	6958.1	1.1113	416.33	2.7385	1.5203	28.964
7900	7900	9.7823	5.1978	6948.7	1.1048	416.05	2.7207	1.5292	28.964
7950	7950	9.7821	5.1674	6939.3	1.0984	415.76	2.7030	1.5381	28.964
8000	8000	9.7820	5.1372 + 0	6929.8	1.0920 +25	415.48	2.6854 + 9	1.5472 - 7	28.964
8050	8050	9.7818	5.1071	6920.4	1.0854	415.19	2.6679	1.5563	28.964
8100	8100	9.7817	5.0771	6911.0	1.0789	414.90	2.6504	1.5654	28.964
8150	8150	9.7815	5.0473	6901.6	1.0729	414.62	2.6331	1.5746	28.964
8200	8200	9.7814	5.0176	6892.1	1.0664	414.33	2.6158	1.5839	28.964
8250	8250	9.7812	4.9880	6882.7	1.0604	414.04	2.5987	1.5933	28.964
8300	8300	9.7811	4.9584	6873.3	1.0541	413.76	2.5814	1.6027	28.964
8350	8350	9.7809	4.9293	6863.8	1.0479	413.47	2.5646	1.6122	28.964
8400	8400	9.7807	4.9001	6854.4	1.0417	413.18	2.5477	1.6218	28.964
8450	8450	9.7806	4.8711	6845.0	1.0356	412.89	2.5309	1.6314	28.964
8500	8500	9.7804	4.8422 + 0	6835.5	1.0294 +25	412.61	2.5141 + 9	1.6412 - 7	28.964
8550	8550	9.7803	4.8134	6826.1	1.0233	412.32	2.4975	1.6509	28.964
8600	8600	9.7801	4.7848	6816.7	1.0173	412.03	2.4809	1.6608	28.964
8650	8650	9.7800	4.7563	6807.2	1.0112	411.74	2.4645	1.6707	28.964
8700	8700	9.7798	4.7279	6797.8	1.0052	411.45	2.4481	1.6807	28.964
8750	8750	9.7797	4.6997	6788.4	9.9922 +24	411.16	2.4318	1.6908	28.964
8800	8800	9.7795	4.6715	6779.0	9.9825	410.88	2.4156	1.7009	28.964
8850	8850	9.7794	4.6434	6769.5	9.9732	410.59	2.3995	1.7112	28.964
8900	8900	9.7792	4.6157	6760.1	9.9641	410.30	2.3834	1.7215	28.964
8950	8950	9.7791	4.5880	6750.7	9.9553	410.01	2.3675	1.7318	28.964
9000	9000	9.7789	4.5604 + 0	6741.2	9.9468 +24	409.72	2.3516 + 9	1.7423 - 7	28.964
9050	9050	9.7787	4.5329	6731.8	9.9385	409.43	2.3358	1.7528	28.964
9100	9100	9.7786	4.5055	6722.3	9.9305	409.14	2.3201	1.7634	28.964
9150	9150	9.7784	4.4783	6712.9	9.9226	408.85	2.3045	1.7741	28.964
9200	9200	9.7783	4.4512	6703.5	9.9148	408.56	2.2890	1.7849	28.964
9250	9250	9.7781	4.4242	6694.0	9.9071	408.27	2.2735	1.7958	28.964
9300	9300	9.7780	4.3974	6684.6	9.8995	407.97	2.2581	1.8067	28.964
9350	9350	9.7778	4.3707	6675.2	9.8920	407.68	2.2428	1.8177	28.964
9400	9400	9.7777	4.3441	6665.7	9.8846	407.39	2.2274	1.8288	28.964
9450	9450	9.7775	4.3176	6656.3	9.8774	407.10	2.2125	1.8400	28.964
9500	9500	9.7774	4.2913 + 0	6646.9	9.8704 +24	406.81	2.1975 + 9	1.8513 - 7	28.964
9550	9550	9.7772	4.2651	6637.4	9.8634	406.52	2.1825	1.8626	28.964
9600	9600	9.7770	4.2390	6628.0	9.8565	406.22	2.1676	1.8740	28.964
9650	9650	9.7769	4.2130	6618.6	9.8496	405.93	2.1528	1.8854	28.964
9700	9700	9.7767	4.1871	6609.1	9.8428	405.64	2.1381	1.8972	28.964
9750	9750	9.7766	4.1614	6600.7	9.8361	405.35	2.1235	1.9089	28.964
9800	9800	9.7764	4.1358	6590.2	9.8294	405.05	2.1089	1.9207	28.964
9850	9850	9.7763	4.1103	6580.8	9.8228	404.76	2.0946	1.9326	28.964
9900	9900	9.7761	4.0849	6571.4	9.8163	404.47	2.0800	1.9445	28.964
9950	9950	9.7760	4.0597	6561.9	9.8097	404.17	2.0657	1.9564	28.964
10000	10000	9.7758	4.0345 + 0	6552.5	9.8034 +24	403.88	2.0514 + 9	1.9688 - 7	28.964
10050	10050	9.7757	4.0095	6543.0	9.7968	403.58	2.0373	1.9810	28.964
10100	10100	9.7755	3.9844	6533.6	9.7903	403.29	2.0232	1.9933	28.964
10150	10150	9.7754	3.9599	6524.2	9.7838	402.99	2.0092	2.0058	28.964
10200	10200	9.7752	3.9352	6514.7	9.7774	402.70	1.9952	2.0183	28.964
10250	10250	9.7750	3.9107	6505.3	9.7710	402.40	1.9814	2.0310	28.964
10300	10300	9.7749	3.8862	6495.8	9.7646	402.11	1.9676	2.0437	28.964
10350	10350	9.7747	3.8619	6486.4	9.7582	401.81	1.9539	2.0565	28.964
10400	10400	9.7746	3.8378	6476.9	9.7519	401.52	1.9402	2.0694	28.964
10450	10450	9.7744	3.8137	6467.5	9.7458	401.22	1.9267	2.0825	28.964
10500	10500	9.7743	3.7897 + 0	6458.1	9.7397 +24	400.93	1.9132 + 9	2.0956 - 7	28.964
10550	10550	9.7741	3.7659	6448.6	9.7337	400.63	1.8998	2.1088	28.964
10600	10600	9.7740	3.7422	6439.2	9.7278	400.33	1.8864	2.1222	28.964
10650	10650	9.7738	3.7186	6429.7	9.7219	400.04	1.8732	2.1356	28.964
10700	10700	9.7737	3.6951	6420.3	9.7161	399.74	1.8600	2.1492	28.964
10750	10750	9.7735	3.6717	6410.8	9.7103	399.44	1.8469	2.1628	28.964
10800	10800	9.7734	3.6484	6401.4	9.7045	399.14	1.8338	2.1764	28.964
10850	10850	9.7732	3.6253	6392.0	9.6988	398.85	1.8209	2.1904	28.964
10900	10900	9.7730	3.6022	6382.5	9.6931	398.55	1.8080	2.2044	28.964
10950	10950	9.7729	3.5793	6373.1	9.6874	398.25	1.7951	2.2185	28.964

TABLE II.—Continued

GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
7000	6992	9.7851	5.7754 + 0	7119.8	1.2268 +25	421.20	3.0586 + 9	1.3771 - 7	28.964
7050	7042	9.7849	5.7705	7110.4	1.2199	420.92	3.0392	1.3850	28.964
7100	7092	9.7848	5.7678	7101.0	1.2129	420.63	3.0199	1.3929	28.964
7150	7142	9.7846	5.7653	7091.6	1.2060	420.35	3.0007	1.4008	28.964
7200	7192	9.7845	5.7628	7082.2	1.1992	420.07	2.9816	1.4089	28.964
7250	7242	9.7843	5.7604	7072.8	1.1923	419.79	2.9624	1.4170	28.964
7300	7292	9.7842	5.7580	7063.4	1.1855	419.51	2.9437	1.4251	28.964
7350	7342	9.7840	5.7556	7054.0	1.1787	419.22	2.9249	1.4333	28.964
7400	7391	9.7839	5.7531	7044.6	1.1720	418.94	2.9062	1.4415	28.964
7450	7441	9.7837	5.7507	7035.2	1.1653	418.66	2.8876	1.4499	28.964
7500	7491	9.7835	5.7483	7025.8	1.1586 +25	418.37	2.8690 + 9	1.4582 - 7	28.964
7550	7541	9.7834	5.7459	7016.4	1.1519	418.09	2.8506	1.4667	28.964
7600	7591	9.7832	5.7436	7007.0	1.1453	417.81	2.8323	1.4752	28.964
7650	7641	9.7831	5.7412	6997.6	1.1387	417.52	2.8140	1.4837	28.964
7700	7691	9.7829	5.7389	6988.2	1.1321	417.24	2.7959	1.4923	28.964
7750	7741	9.7828	5.7365	6978.8	1.1254	416.96	2.7779	1.5010	28.964
7800	7791	9.7826	5.7342	6969.3	1.1190	416.67	2.7599	1.5097	28.964
7850	7840	9.7825	5.7318	6959.9	1.1124	416.39	2.7420	1.5185	28.964
7900	7890	9.7823	5.7295	6950.5	1.1061	416.10	2.7242	1.5274	28.964
7950	7940	9.7822	5.7271	6941.1	1.0997	415.82	2.7065	1.5363	28.964
8000	7990	9.7820	5.7247	6931.7	1.0933 +25	415.53	2.6889 + 9	1.5453 - 7	28.964
8050	8040	9.7819	5.7223	6922.3	1.0869	415.25	2.6714	1.5544	28.964
8100	8090	9.7817	5.7200	6912.9	1.0806	414.96	2.6540	1.5635	28.964
8150	8140	9.7815	5.7176	6903.5	1.0742	414.68	2.6367	1.5727	28.964
8200	8189	9.7814	5.7152	6894.1	1.0680	414.39	2.6193	1.5820	28.964
8250	8239	9.7812	5.7128	6884.7	1.0617	414.10	2.6023	1.5913	28.964
8300	8289	9.7811	5.7104	6875.3	1.0555	413.82	2.5853	1.6007	28.964
8350	8339	9.7809	5.7080	6865.9	1.0493	413.53	2.5683	1.6101	28.964
8400	8389	9.7808	5.7056	6856.5	1.0431	413.25	2.5514	1.6197	28.964
8450	8439	9.7806	5.7032	6847.1	1.0369	412.96	2.5346	1.6293	28.964
8500	8489	9.7805	5.7008	6837.7	1.0308 +25	412.67	2.5179 + 9	1.6389 - 7	28.964
8550	8539	9.7803	5.6984	6828.3	1.0247	412.38	2.5013	1.6487	28.964
8600	8589	9.7802	5.6960	6818.9	1.0187	412.10	2.4848	1.6585	28.964
8650	8639	9.7800	5.6936	6809.5	1.0126	411.81	2.4683	1.6684	28.964
8700	8689	9.7799	5.6912	6800.1	1.0066	411.52	2.4520	1.6783	28.964
8750	8739	9.7797	5.6888	6790.7	1.0007	411.23	2.4357	1.6884	28.964
8800	8789	9.7796	5.6864	6781.2	9.9970 +24	410.95	2.4195	1.6985	28.964
8850	8839	9.7794	5.6840	6771.8	9.9938	410.66	2.4034	1.7086	28.964
8900	8889	9.7792	5.6816	6762.4	9.9906	410.37	2.3874	1.7189	28.964
8950	8939	9.7791	5.6792	6753.0	9.9874	410.08	2.3715	1.7292	28.964
9000	8989	9.7789	5.6768	6743.6	9.9842 +24	409.79	2.3556 + 9	1.7394 - 7	28.964
9050	9039	9.7788	5.6744	6734.2	9.9810	409.50	2.3399	1.7501	28.964
9100	9089	9.7786	5.6720	6724.8	9.9778	409.21	2.3242	1.7607	28.964
9150	9139	9.7785	5.6696	6715.4	9.9746	408.92	2.3086	1.7715	28.964
9200	9189	9.7783	5.6672	6706.0	9.9714	408.63	2.2931	1.7820	28.964
9250	9239	9.7782	5.6648	6696.6	9.9682	408.34	2.2776	1.7928	28.964
9300	9289	9.7780	5.6624	6687.2	9.9650	408.05	2.2623	1.8037	28.964
9350	9339	9.7779	5.6600	6677.8	9.9618	407.76	2.2470	1.8147	28.964
9400	9389	9.7777	5.6576	6668.4	9.9586	407.47	2.2318	1.8257	28.964
9450	9439	9.7776	5.6552	6659.0	9.9554	407.18	2.2167	1.8368	28.964
9500	9489	9.7774	5.6528	6649.5	9.9522 +24	406.89	2.2017 + 9	1.8481 - 7	28.964
9550	9539	9.7772	5.6504	6640.1	9.9490	406.60	2.1868	1.8593	28.964
9600	9589	9.7771	5.6480	6630.7	9.9458	406.31	2.1719	1.8707	28.964
9650	9639	9.7769	5.6456	6621.3	9.9426	406.02	2.1571	1.8822	28.964
9700	9689	9.7768	5.6432	6611.9	9.9394	405.72	2.1424	1.8937	28.964
9750	9739	9.7766	5.6408	6602.5	9.9362	405.43	2.1278	1.9054	28.964
9800	9789	9.7765	5.6384	6593.1	9.9330	405.14	2.1133	1.9171	28.964
9850	9839	9.7763	5.6360	6583.7	9.9298	404.85	2.0988	1.9289	28.964
9900	9889	9.7762	5.6336	6574.3	9.9266	404.56	2.0846	1.9408	28.964
9950	9939	9.7760	5.6312	6564.9	9.9234	404.26	2.0701	1.9528	28.964
10000	9989	9.7759	5.6288	6555.5	9.9202 +24	403.97	2.0559 + 9	1.9649 - 7	28.964
10050	10039	9.7757	5.6264	6546.0	9.9170	403.68	2.0418	1.9771	28.964
10100	10089	9.7756	5.6240	6536.6	9.9138	403.38	2.0277	1.9894	28.964
10150	10139	9.7754	5.6216	6527.2	9.9106	403.09	2.0137	2.0018	28.964
10200	10189	9.7753	5.6192	6517.8	9.9074	402.80	1.9998	2.0142	28.964
10250	10239	9.7751	5.6168	6508.4	9.9042	402.51	1.9859	2.0268	28.964
10300	10289	9.7750	5.6144	6499.0	9.9010	402.21	1.9722	2.0394	28.964
10350	10339	9.7748	5.6120	6489.6	9.8978	401.91	1.9586	2.0522	28.964
10400	10389	9.7746	5.6096	6480.2	9.8946	401.62	1.9448	2.0650	28.964
10450	10439	9.7745	5.6072	6470.7	9.8914	401.32	1.9313	2.0780	28.964
10500	10489	9.7743	5.6048	6461.3	9.8882 +24	401.03	1.9178 + 9	2.0910 - 7	28.964
10550	10539	9.7742	5.6024	6451.9	9.8850	400.73	1.9044	2.1042	28.964
10600	10589	9.7740	5.6000	6442.5	9.8818	400.44	1.8911	2.1174	28.964
10650	10639	9.7739	5.5976	6433.1	9.8786	400.14	1.8779	2.1308	28.964
10700	10689	9.7737	5.5952	6423.7	9.8754	399.85	1.8647	2.1443	28.964
10750	10739	9.7736	5.5928	6414.3	9.8722	399.55	1.8514	2.1578	28.964
10800	10789	9.7734	5.5904	6404.9	9.8690	399.25	1.8382	2.1715	28.964
10850	10839	9.7733	5.5880	6395.5	9.8658	398.96	1.8250	2.1853	28.964
10900	10889	9.7731	5.5856	6386.0	9.8626	398.66	1.8120	2.1992	28.964
10950	10939	9.7729	5.5832	6376.6	9.8594	398.36	1.8000	2.2132	28.964

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
11000	11019	9.7727	3.5545 + 0	6563.6	7.5669 +24	397.95	1.7824 + 9	2.2527 - 7	28.964
11100	11119	9.7724	3.5507	6563.8	7.5686	397.95	1.7545	2.2682	28.964
11200	11220	9.7721	3.5458	6564.0	7.5720	397.95	1.7270	2.2842	28.964
11300	11320	9.7718	3.5398	6564.2	7.5773	397.95	1.7000	2.3009	28.964
11400	11420	9.7715	3.5337	6564.4	7.5844	397.95	1.6734	2.3181	28.964
11500	11521	9.7712	3.5269	6564.6	7.5932	397.95	1.6472	2.3359	28.964
11600	11621	9.7709	3.5200	6564.8	7.6038	397.95	1.6215	2.3543	28.964
11700	11722	9.7706	3.5131	6565.0	7.6161	397.95	1.5961	2.3733	28.964
11800	11822	9.7703	3.5062	6565.2	7.6301	397.95	1.5711	2.3927	28.964
11900	11922	9.7700	3.5000	6565.4	7.6458	397.95	1.5464	2.4131	28.964
12000	12023	9.7697	3.4937 + 0	6565.6	7.6630 +24	397.95	1.5224 + 9	2.4340 - 7	28.964
12100	12123	9.7693	3.4879	6565.8	7.6819	397.95	1.4985	2.4554	28.964
12200	12223	9.7690	3.4822	6566.0	7.7024	397.95	1.4751	2.4778	28.964
12300	12324	9.7687	3.4764	6566.2	7.7244	397.95	1.4520	2.5007	28.964
12400	12424	9.7684	3.4707	6566.4	7.7479	397.95	1.4293	2.5242	28.964
12500	12525	9.7681	3.4650	6566.6	7.7730	397.95	1.4069	2.5485	28.964
12600	12625	9.7678	3.4593	6566.8	7.8004	397.95	1.3849	2.5734	28.964
12700	12725	9.7675	3.4537	6567.0	7.8294	397.95	1.3633	2.5991	28.964
12800	12826	9.7672	3.4481	6567.2	7.8601	397.95	1.3419	2.6255	28.964
12900	12926	9.7669	3.4424	6567.4	7.8924	397.95	1.3209	2.6524	28.964
13000	13027	9.7666	3.4367 + 0	6567.6	7.9263 +24	397.95	1.3003 + 9	2.6805 - 7	28.964
13100	13127	9.7663	3.4310	6567.8	7.9618	397.95	1.2799	2.7092	28.964
13200	13227	9.7660	3.4253	6568.0	8.0000	397.95	1.2599	2.7384	28.964
13300	13328	9.7657	3.4196	6568.2	8.0399	397.95	1.2402	2.7681	28.964
13400	13428	9.7653	3.4139	6568.4	8.0816	397.95	1.2208	2.7984	28.964
13500	13529	9.7650	3.4082	6568.6	8.1251	397.95	1.2017	2.8291	28.964
13600	13629	9.7647	3.4025	6568.8	8.1704	397.95	1.1829	2.8602	28.964
13700	13730	9.7644	3.3968	6569.0	8.2174	397.95	1.1644	2.8917	28.964
13800	13830	9.7641	3.3911	6569.2	8.2661	397.95	1.1462	2.9234	28.964
13900	13930	9.7638	3.3854	6569.4	8.3164	397.95	1.1282	2.9557	28.964
14000	14031	9.7635	3.3797 + 0	6569.6	8.3684 +24	397.95	1.1106 + 9	2.9885 - 7	28.964
14100	14131	9.7632	3.3740	6569.8	8.4219	397.95	1.0932	3.0217	28.964
14200	14232	9.7629	3.3683	6570.0	8.4770	397.95	1.0761	3.0554	28.964
14300	14332	9.7626	3.3626	6570.2	8.5334	397.95	1.0593	3.0895	28.964
14400	14433	9.7623	3.3569	6570.4	8.5911	397.95	1.0427	3.1241	28.964
14500	14533	9.7620	3.3512	6570.6	8.6501	397.95	1.0264	3.1591	28.964
14600	14634	9.7617	3.3455	6570.8	8.7104	397.95	1.0103	3.1944	28.964
14700	14734	9.7614	3.3398	6571.0	8.7720	397.95	9.9452 + 8	3.2301	28.964
14800	14835	9.7611	3.3341	6571.2	8.8349	397.95	9.7896	3.2661	28.964
14900	14935	9.7607	3.3284	6571.4	8.8991	397.95	9.6364	3.3027	28.964
15000	15035	9.7604	3.3227 + 0	6571.6	8.9646 +24	397.95	9.4851 + 8	3.3398 - 7	28.964
15100	15136	9.7601	3.3170	6571.8	9.0314	397.95	9.3373	3.3774	28.964
15200	15236	9.7598	3.3113	6572.0	9.1004	397.95	9.1912	3.4154	28.964
15300	15337	9.7595	3.3056	6572.2	9.1706	397.95	9.0474	3.4539	28.964
15400	15437	9.7592	3.2999	6572.4	9.2420	397.95	8.9058	3.4928	28.964
15500	15538	9.7589	3.2942	6572.6	9.3146	397.95	8.7665	3.5321	28.964
15600	15638	9.7586	3.2885	6572.8	9.3884	397.95	8.6293	3.5717	28.964
15700	15739	9.7583	3.2828	6573.0	9.4634	397.95	8.4943	3.6116	28.964
15800	15839	9.7580	3.2771	6573.2	9.5396	397.95	8.3614	3.6517	28.964
15900	15940	9.7576	3.2714	6573.4	9.6169	397.95	8.2306	3.6921	28.964
16000	16040	9.7573	3.2657 + 0	6573.6	9.6954 +24	397.95	8.1019 + 8	3.7329 - 7	28.964
16100	16141	9.7570	3.2600	6573.8	9.7751	397.95	7.9751	3.7739	28.964
16200	16241	9.7567	3.2543	6574.0	9.8560	397.95	7.8503	3.8154	28.964
16300	16342	9.7564	3.2486	6574.2	9.9380	397.95	7.7275	3.8574	28.964
16400	16442	9.7561	3.2429	6574.4	1.0013	397.95	7.6064	3.8999	28.964
16500	16543	9.7558	3.2372	6574.6	1.0657	397.95	7.4874	3.9428	28.964
16600	16643	9.7555	3.2315	6574.8	1.1312	397.95	7.3705	3.9861	28.964
16700	16744	9.7552	3.2258	6575.0	1.1978	397.95	7.2552	4.0297	28.964
16800	16845	9.7549	3.2201	6575.2	1.2654	397.95	7.1416	4.0737	28.964
16900	16945	9.7546	3.2144	6575.4	1.3341	397.95	7.0299	4.1181	28.964
17000	17046	9.7543	3.2087 + 0	6575.6	1.4039 +24	397.95	6.9199 + 8	4.1630 - 7	28.964
17100	17146	9.7540	3.2030	6575.8	1.4748	397.95	6.8117	4.2082	28.964
17200	17247	9.7536	3.1973	6576.0	1.5468	397.95	6.7051	4.2537	28.964
17300	17347	9.7533	3.1916	6576.2	1.6198	397.95	6.6002	4.2996	28.964
17400	17448	9.7530	3.1859	6576.4	1.6938	397.95	6.4969	4.3459	28.964
17500	17548	9.7527	3.1802	6576.6	1.7688	397.95	6.3953	4.3926	28.964
17600	17649	9.7524	3.1745	6576.8	1.8448	397.95	6.2952	4.4397	28.964
17700	17749	9.7521	3.1688	6577.0	1.9218	397.95	6.1967	4.4871	28.964
17800	17850	9.7518	3.1631	6577.2	1.9998	397.95	6.0998	4.5348	28.964
17900	17951	9.7515	3.1574	6577.4	2.0788	397.95	6.0044	4.5827	28.964
18000	18051	9.7512	3.1517 + 0	6577.6	2.1588 +24	397.95	5.9104 + 8	4.6310 - 7	28.964
18100	18152	9.7509	3.1460	6577.8	2.2398	397.95	5.8179	4.6797	28.964
18200	18252	9.7506	3.1403	6578.0	2.3218	397.95	5.7269	4.7287	28.964
18300	18353	9.7503	3.1346	6578.2	2.4048	397.95	5.6373	4.7780	28.964
18400	18453	9.7500	3.1289	6578.4	2.4888	397.95	5.5491	4.8276	28.964
18500	18554	9.7496	3.1232	6578.6	2.5738	397.95	5.4623	4.8774	28.964
18600	18655	9.7493	3.1175	6578.8	2.6598	397.95	5.3769	4.9274	28.964
18700	18755	9.7490	3.1118	6579.0	2.7468	397.95	5.2927	4.9777	28.964
18800	18856	9.7487	3.1061	6579.2	2.8348	397.95	5.2099	5.0282	28.964
18900	18956	9.7484	3.1004	6579.4	2.9238	397.95	5.1284	5.0789	28.964

TABLE II.—Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m/sec}^2$	Specific weight $\gamma, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
11000	10981	9.7728	3.5651 + 0	6367.2	7.5853 +24	398.07	1.7872 + 9	2.2273 - 7	28.966
11100	11081	9.7725	3.5114	6363.8	7.4713	397.95	1.7599	2.2613	28.966
11200	11180	9.7722	3.4566	6360.0	7.3540	397.95	1.7324	2.2971	28.966
11300	11280	9.7718	3.4026	6356.2	7.2402	397.95	1.7054	2.3335	28.966
11400	11380	9.7716	3.3494	6352.4	7.1273	397.95	1.6780	2.3704	28.966
11500	11479	9.7713	3.2971	6348.6	7.0162	397.95	1.6527	2.4080	28.966
11600	11579	9.7710	3.2456	6344.8	6.9068	397.95	1.6269	2.4461	28.966
11700	11679	9.7704	3.1949	6341.0	6.7991	397.95	1.6015	2.4848	28.966
11800	11778	9.7703	3.1450	6337.2	6.6932	397.95	1.5766	2.5242	28.966
11900	11878	9.7700	3.0959	6333.4	6.5888	397.95	1.5520	2.5641	28.966
12000	11977	9.7697	3.0475 + 0	6329.6	6.4861 +24	397.95	1.5278 + 9	2.6047 - 7	28.966
12100	12077	9.7694	3.0000	6325.8	6.3850	397.95	1.5040	2.6460	28.966
12200	12177	9.7691	2.9531	6322.0	6.2855	397.95	1.4803	2.6879	28.966
12300	12276	9.7688	2.9070	6318.2	6.1876	397.95	1.4575	2.7304	28.966
12400	12376	9.7685	2.8616	6314.4	6.0911	397.95	1.4348	2.7737	28.966
12500	12475	9.7682	2.8169	6310.6	5.9962	397.95	1.4124	2.8176	28.966
12600	12575	9.7679	2.7729	6306.8	5.9027	397.95	1.3904	2.8622	28.966
12700	12675	9.7676	2.7296	6303.0	5.8108	397.95	1.3687	2.9075	28.966
12800	12774	9.7673	2.6870	6299.2	5.7202	397.95	1.3474	2.9535	28.966
12900	12874	9.7670	2.6450	6295.4	5.6311	397.95	1.3264	3.0003	28.966
13000	12973	9.7667	2.6038 + 0	6291.6	5.5433 +24	397.95	1.3057 + 9	3.0477 - 7	28.966
13100	13073	9.7664	2.5631	6287.8	5.4570	397.95	1.2854	3.0960	28.966
13200	13173	9.7660	2.5231	6284.0	5.3719	397.95	1.2654	3.1450	28.966
13300	13272	9.7657	2.4837	6280.2	5.2882	397.95	1.2456	3.1948	28.966
13400	13372	9.7654	2.4449	6276.4	5.2058	397.95	1.2262	3.2453	28.966
13500	13471	9.7651	2.4068	6272.6	5.1247	397.95	1.2071	3.2967	28.966
13600	13571	9.7648	2.3692	6268.8	5.0449	397.95	1.1883	3.3489	28.966
13700	13671	9.7645	2.3322	6265.0	4.9663	397.95	1.1698	3.4019	28.966
13800	13770	9.7642	2.2958	6261.2	4.8889	397.95	1.1516	3.4557	28.966
13900	13870	9.7639	2.2600	6257.4	4.8128	397.95	1.1336	3.5104	28.966
14000	13969	9.7636	2.2247 + 0	6253.6	4.7378 +24	397.95	1.1160 + 9	3.5659 - 7	28.966
14100	14069	9.7633	2.1900	6249.8	4.6640	397.95	1.0986	3.6223	28.966
14200	14168	9.7630	2.1558	6246.0	4.5914	397.95	1.0815	3.6797	28.966
14300	14268	9.7627	2.1221	6242.2	4.5198	397.95	1.0646	3.7379	28.966
14400	14367	9.7624	2.0890	6238.4	4.4494	397.95	1.0481	3.7970	28.966
14500	14467	9.7621	2.0564	6234.6	4.3801	397.95	1.0317	3.8571	28.966
14600	14567	9.7618	2.0243	6230.8	4.3119	397.95	1.0157	3.9181	28.966
14700	14666	9.7615	1.9927	6227.0	4.2448	397.95	9.9985 + 8	3.9801	28.966
14800	14766	9.7611	1.9616	6223.2	4.1787	397.95	9.8828	4.0431	28.966
14900	14865	9.7608	1.9310	6219.4	4.1136	397.95	9.8695	4.1070	28.966
15000	14965	9.7605	1.9009 + 0	6215.6	4.0493 +24	397.95	9.8386 + 8	4.1720 - 7	28.966
15100	15064	9.7602	1.8713	6211.8	3.9865	397.95	9.8091	4.2380	28.966
15200	15164	9.7599	1.8421	6208.0	3.9244	397.95	9.7809	4.3050	28.966
15300	15263	9.7596	1.8133	6204.2	3.8633	397.95	9.7530	4.3731	28.966
15400	15363	9.7593	1.7850	6200.4	3.8031	397.95	9.7254	4.4423	28.966
15500	15462	9.7590	1.7572	6196.6	3.7439	397.95	9.6980	4.5125	28.966
15600	15562	9.7587	1.7298	6192.8	3.6856	397.95	9.6705	4.5839	28.966
15700	15661	9.7584	1.7028	6189.0	3.6283	397.95	9.6433	4.6564	28.966
15800	15761	9.7581	1.6762	6185.2	3.5718	397.95	9.6163	4.7301	28.966
15900	15860	9.7578	1.6501	6181.4	3.5162	397.95	9.5895	4.8049	28.966
16000	15960	9.7575	1.6243 + 0	6177.6	3.4614 +24	397.95	9.5633 + 8	4.8808 - 7	28.966
16100	16059	9.7572	1.5990	6173.8	3.4075	397.95	9.5380	4.9580	28.966
16200	16159	9.7569	1.5741	6170.0	3.3545	397.95	9.5130	5.0364	28.966
16300	16258	9.7566	1.5495	6166.2	3.3023	397.95	9.4883	5.1161	28.966
16400	16358	9.7562	1.5253	6162.4	3.2509	397.95	9.4639	5.1969	28.966
16500	16457	9.7559	1.5015	6158.6	3.2003	397.95	9.4397	5.2791	28.966
16600	16557	9.7556	1.4781	6154.8	3.1505	397.95	9.4157	5.3626	28.966
16700	16656	9.7553	1.4551	6151.0	3.1014	397.95	9.3919	5.4474	28.966
16800	16756	9.7550	1.4324	6147.2	3.0532	397.95	9.3683	5.5335	28.966
16900	16855	9.7547	1.4101	6143.4	3.0056	397.95	9.3449	5.6210	28.966
17000	16955	9.7544	1.3881 + 0	6139.6	2.9589 +24	397.95	9.3218 + 8	5.7098 - 7	28.966
17100	17054	9.7541	1.3664	6135.8	2.9128	397.95	9.2989	5.7991	28.966
17200	17154	9.7538	1.3451	6132.0	2.8675	397.95	9.2762	5.8898	28.966
17300	17253	9.7535	1.3241	6128.2	2.8229	397.95	9.2537	5.9819	28.966
17400	17352	9.7532	1.3035	6124.4	2.7789	397.95	9.2313	6.0755	28.966
17500	17452	9.7529	1.2832	6120.6	2.7357	397.95	9.2091	6.1704	28.966
17600	17551	9.7526	1.2632	6116.8	2.6931	397.95	9.1871	6.2666	28.966
17700	17651	9.7523	1.2435	6113.0	2.6512	397.95	9.1652	6.3641	28.966
17800	17750	9.7520	1.2241	6109.2	2.6100	397.95	9.1435	6.4628	28.966
17900	17850	9.7516	1.2050	6105.4	2.5694	397.95	9.1219	6.5628	28.966
18000	17949	9.7513	1.1862 + 0	6101.6	2.5294 +24	397.95	9.1005 + 8	6.6793 - 7	28.966
18100	18049	9.7510	1.1677	6097.8	2.4901	397.95	9.0793	6.7899	28.966
18200	18148	9.7507	1.1495	6094.0	2.4513	397.95	9.0583	6.9021	28.966
18300	18247	9.7504	1.1314	6090.2	2.4132	397.95	9.0374	7.0161	28.966
18400	18347	9.7501	1.1140	6086.4	2.3756	397.95	9.0167	7.1314	28.966
18500	18446	9.7498	1.0966	6082.6	2.3387	397.95	8.9961	7.2480	28.966
18600	18546	9.7495	1.0795	6078.8	2.3023	397.95	8.9757	7.3651	28.966
18700	18645	9.7492	1.0627	6075.0	2.2665	397.95	8.9554	7.4838	28.966
18800	18745	9.7489	1.0461	6071.2	2.2312	397.95	8.9352	7.6031	28.966
18900	18844	9.7486	1.0298	6067.4	2.1965	397.95	8.9151	7.7231	28.966

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, m/sec^2$	Specific weight $\omega, kg\ m^{-3}\ sec^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{V}, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
19999	19997	9.7981	1.0067 + 0	4379.7	2.1432 +24	397.95	5.0482 + 8	7.8831 - 7	28.964
19100	19158	9.7978	9.8960 - 1	4379.9	2.1096	397.95	4.9492	8.0084	28.964
19200	19258	9.7975	9.7349	4380.1	2.0766	397.95	4.8515	8.1358	28.964
19300	19359	9.7972	9.5823	4380.3	2.0441	397.95	4.7549	8.2650	28.964
19400	19459	9.7969	9.4321	4380.5	2.0122	397.95	4.6594	8.3963	28.964
19500	19560	9.7966	9.2862	4380.7	1.9807	397.95	4.5649	8.5298	28.964
19600	19661	9.7963	9.1387	4380.9	1.9497	397.95	4.4725	8.6653	28.964
19700	19761	9.7960	8.9954	4381.1	1.9192	397.95	4.3804	8.8031	28.964
19800	19862	9.7956	8.8544	4381.3	1.8892	397.95	4.2899	8.9430	28.964
19900	19963	9.7953	8.7154	4381.5	1.8596	397.95	4.2003	9.0851	28.964
20000	20063	9.7950	8.5790 - 1	4381.7	1.8305 +24	397.95	4.1117 + 8	9.2295 - 7	28.964
20100	20164	9.7947	8.4466	4381.9	1.8010	398.04	4.0243	9.3805	28.964
20200	20264	9.7944	8.3086	4382.0	1.7721	398.14	3.9376	9.5339	28.964
20300	20365	9.7941	8.1708	4391.2	1.7436	398.23	3.8519	9.6897	28.964
20400	20466	9.7938	8.0302	4394.3	1.7155	398.32	3.7677	9.8480	28.964
20500	20566	9.7935	7.8908	4397.5	1.6880	398.41	3.6846	1.0009 - 6	28.964
20600	20667	9.7932	7.7525	4400.4	1.6609	398.50	3.6017	1.0172	28.964
20700	20768	9.7929	7.6154	4403.7	1.6342	398.59	3.5194	1.0338	28.964
20800	20868	9.7926	7.4793	4406.9	1.6080	398.69	3.4374	1.0507	28.964
20900	20969	9.7923	7.3432	4410.0	1.5822	398.78	3.3554	1.0678	28.964
21000	21070	9.7920	7.2091 - 1	4413.2	1.5568 +24	398.87	3.2756 + 8	1.0852 - 6	28.964
21100	21170	9.7916	7.1778	4416.3	1.5319	398.96	3.1975	1.1029	28.964
21200	21271	9.7913	7.0419	4419.3	1.5074	399.05	3.1204	1.1208	28.964
21300	21372	9.7910	6.9064	4422.4	1.4832	399.14	3.0442	1.1390	28.964
21400	21472	9.7907	6.7722	4425.6	1.4595	399.24	2.9689	1.1576	28.964
21500	21573	9.7904	6.6377	4428.9	1.4362	399.33	2.8946	1.1764	28.964
21600	21674	9.7901	6.5049	4432.1	1.4132	399.42	2.8211	1.1955	28.964
21700	21774	9.7898	6.3739	4435.2	1.3906	399.51	2.7484	1.2149	28.964
21800	21875	9.7895	6.2447	4438.4	1.3684	399.60	2.6764	1.2346	28.964
21900	21976	9.7892	6.1072	4441.5	1.3466	399.69	2.6057	1.2546	28.964
22000	22076	9.7889	6.0043 - 1	4444.7	1.3251 +24	399.78	2.5356 + 8	1.2750 - 6	28.964
22100	22177	9.7886	6.1071	4447.8	1.3039	399.88	2.4663	1.2957	28.964
22200	22278	9.7883	6.0094	4451.0	1.2832	399.97	2.3978	1.3166	28.964
22300	22379	9.7880	5.9134	4454.1	1.2627	400.06	2.3300	1.3380	28.964
22400	22479	9.7876	5.8192	4457.3	1.2426	400.15	2.2631	1.3596	28.964
22500	22580	9.7873	5.7264	4460.5	1.2228	400.24	2.1969	1.3814	28.964
22600	22681	9.7870	5.6351	4463.6	1.2034	400.33	2.1314	1.4040	28.964
22700	22781	9.7867	5.5453	4466.8	1.1842	400.42	2.0667	1.4267	28.964
22800	22882	9.7864	5.4570	4469.9	1.1654	400.51	2.0027	1.4497	28.964
22900	22983	9.7861	5.3701	4473.1	1.1469	400.61	2.7194	1.4731	28.964
23000	23084	9.7858	5.2846 - 1	4476.2	1.1286 +24	400.70	2.6749 + 8	1.4969 - 6	28.964
23100	23184	9.7855	5.2005	4479.4	1.1107	400.79	2.6350	1.5210	28.964
23200	23285	9.7852	5.1178	4482.5	1.0931	400.88	2.5937	1.5454	28.964
23300	23386	9.7849	5.0365	4485.7	1.0758	400.97	2.5532	1.5705	28.964
23400	23486	9.7846	4.9565	4488.8	1.0587	401.06	2.5132	1.5958	28.964
23500	23587	9.7843	4.8778	4492.0	1.0419	401.15	2.4740	1.6215	28.964
23600	23688	9.7840	4.8003	4495.1	1.0254	401.24	2.4353	1.6474	28.964
23700	23789	9.7837	4.7242	4498.3	1.0092	401.34	2.3973	1.6741	28.964
23800	23890	9.7833	4.6493	4501.4	9.9320 +23	401.43	2.3599	1.7010	28.964
23900	23990	9.7830	4.5756	4504.6	9.7749	401.52	2.3231	1.7284	28.964
24000	24091	9.7827	4.5031 - 1	4507.8	9.6203 +23	401.61	2.2869 + 8	1.7561 - 6	28.964
24100	24192	9.7824	4.4317	4510.9	9.4683	401.70	2.2512	1.7843	28.964
24200	24292	9.7821	4.3616	4514.1	9.3187	401.79	2.2162	1.8130	28.964
24300	24393	9.7818	4.2926	4517.2	9.1715	401.88	2.1817	1.8421	28.964
24400	24494	9.7815	4.2247	4520.4	9.0268	401.97	2.1477	1.8716	28.964
24500	24595	9.7812	4.1579	4523.5	8.8843	402.06	2.1143	1.9014	28.964
24600	24696	9.7809	4.0922	4526.7	8.7442	402.15	2.0814	1.9321	28.964
24700	24796	9.7806	4.0276	4529.9	8.6064	402.25	2.0491	1.9630	28.964
24800	24897	9.7803	3.9643	4533.0	8.4708	402.34	2.0173	1.9945	28.964
24900	24998	9.7800	3.9014	4536.2	8.3374	402.43	1.9859	2.0264	28.964
25000	25099	9.7797	3.8399 - 1	4539.3	8.2061 +23	402.52	1.9551 + 8	2.0588 - 6	28.964
25100	25200	9.7793	3.7793	4542.5	8.0770	402.61	1.9248	2.0917	28.964
25200	25300	9.7790	3.7198	4545.6	7.9499	402.70	1.8949	2.1251	28.964
25300	25401	9.7787	3.6612	4548.8	7.8249	402.79	1.8654	2.1591	28.964
25400	25502	9.7784	3.6035	4551.9	7.7020	402.88	1.8367	2.1935	28.964
25500	25603	9.7781	3.5468	4555.1	7.5810	402.97	1.8082	2.2284	28.964
25600	25704	9.7778	3.4910	4558.3	7.4620	403.06	1.7802	2.2641	28.964
25700	25805	9.7775	3.4361	4561.4	7.3449	403.15	1.7527	2.3002	28.964
25800	25905	9.7772	3.3821	4564.6	7.2297	403.24	1.7256	2.3369	28.964
25900	26006	9.7769	3.3290	4567.7	7.1163	403.33	1.6989	2.3741	28.964
26000	26107	9.7766	3.2767 - 1	4570.9	7.0048 +23	403.42	1.6727 + 8	2.4119 - 6	28.964
26100	26208	9.7763	3.2253	4574.0	6.8950	403.52	1.6468	2.4503	28.964
26200	26308	9.7760	3.1747	4577.2	6.7871	403.61	1.6214	2.4892	28.964
26300	26409	9.7757	3.1249	4580.4	6.6808	403.70	1.5964	2.5288	28.964
26400	26510	9.7754	3.0759	4583.5	6.5763	403.79	1.5718	2.5690	28.964
26500	26611	9.7751	3.0277	4586.7	6.4735	403.88	1.5475	2.6098	28.964
26600	26712	9.7748	2.9803	4589.8	6.3723	403.97	1.5237	2.6513	28.964
26700	26813	9.7744	2.9336	4593.0	6.2727	404.06	1.5002	2.6933	28.964
26800	26913	9.7741	2.8877	4596.2	6.1748	404.15	1.4771	2.7361	28.964
26900	27014	9.7738	2.8426	4599.3	6.0784	404.24	1.4544	2.7795	28.964

TABLE II.-Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m/sec}^2$	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
19000	18943	9.7483	1.0138 + 0	4379.4	2.1626 + 24	397.95	5.9935 + 8	7.8130 - 7	28.964
19100	19043	9.7480	9.9798 - 1	4379.8	2.1287	397.95	5.9102	7.9344	28.964
19200	19142	9.7477	9.8243	4380.0	2.0954	397.95	6.9343	7.0618	28.964
19300	19242	9.7474	9.6712	4380.2	2.0631	397.95	6.8595	7.1892	28.964
19400	19341	9.7471	9.5205	4380.4	2.0310	397.95	6.7839	8.3185	28.964
19500	19440	9.7468	9.3722	4380.6	1.9996	397.95	6.7095	8.4499	28.964
19600	19540	9.7464	9.2241	4380.8	1.9683	397.95	6.6343	8.5834	28.964
19700	19639	9.7461	9.0824	4381.0	1.9377	397.95	6.5642	8.7190	28.964
19800	19739	9.7458	8.9409	4381.2	1.9076	397.95	6.4932	8.8547	28.964
19900	19838	9.7455	8.8016	4381.4	1.8779	397.95	6.4234	8.9944	28.964
20000	19937	9.7452	8.6645 - 1	4381.6	1.8487 + 24	397.95	6.3544 + 8	9.1387 - 7	28.964
20100	20037	9.7449	8.5280	4382.9	1.8197	397.99	6.2845	9.2845	28.964
20200	20136	9.7446	8.3916	4384.0	1.7908	398.04	6.2149	9.4354	28.964
20300	20235	9.7443	8.2570	4385.1	1.7619	398.17	6.1525	9.5867	28.964
20400	20335	9.7440	8.1248	4386.2	1.7338	398.26	6.0871	9.7444	28.964
20500	20434	9.7437	7.9948	4387.3	1.7061	398.35	6.0227	9.9025	28.964
20600	20533	9.7434	7.8670	4388.5	1.6789	398.45	5.9594	1.0063 - 6	28.964
20700	20633	9.7431	7.7412	4389.6	1.6521	398.53	5.8971	1.0226	28.964
20800	20732	9.7428	7.6176	4390.8	1.6257	398.62	5.8359	1.0392	28.964
20900	20832	9.7425	7.4959	4391.9	1.5998	398.71	5.7756	1.0540	28.964
21000	20931	9.7422	7.3763 - 1	4393.0	1.5743 + 24	398.81	5.7163 + 8	1.0731 - 6	28.964
21100	21030	9.7419	7.2584	4394.1	1.5493	398.90	5.6580	1.0905	28.964
21200	21130	9.7416	7.1428	4395.3	1.5244	398.99	5.6004	1.1081	28.964
21300	21229	9.7413	7.0290	4396.4	1.5004	399.08	5.5441	1.1260	28.964
21400	21328	9.7410	6.9170	4397.5	1.4765	399.17	5.4885	1.1442	28.964
21500	21428	9.7406	6.8069	4398.6	1.4530	399.26	5.4339	1.1627	28.964
21600	21527	9.7403	6.6984	4399.8	1.4300	399.35	5.3801	1.1815	28.964
21700	21626	9.7400	6.5920	4400.9	1.4073	399.44	5.3272	1.2005	28.964
21800	21725	9.7397	6.4872	4402.0	1.3849	399.53	5.2751	1.2199	28.964
21900	21825	9.7394	6.3841	4403.2	1.3630	399.62	5.2239	1.2394	28.964
22000	21924	9.7391	6.2827 - 1	4404.3	1.3414 + 24	399.71	5.1735 + 8	1.2595 - 6	28.964
22100	22023	9.7388	6.1829	4405.4	1.3201	399.81	5.1240	1.2798	28.964
22200	22123	9.7385	6.0848	4406.6	1.2992	399.90	5.0752	1.3004	28.964
22300	22222	9.7382	5.9883	4407.7	1.2786	399.99	5.0272	1.3213	28.964
22400	22321	9.7379	5.8934	4408.8	1.2584	400.08	4.9800	1.3426	28.964
22500	22421	9.7376	5.8000	4409.9	1.2385	400.17	4.9335	1.3641	28.964
22600	22520	9.7373	5.7081	4411.1	1.2189	400.26	4.8870	1.3860	28.964
22700	22619	9.7370	5.6177	4412.2	1.1997	400.35	4.8420	1.4083	28.964
22800	22719	9.7367	5.5288	4413.3	1.1807	400.44	4.7985	1.4309	28.964
22900	22818	9.7364	5.4416	4414.5	1.1621	400.53	4.7560	1.4538	28.964
23000	22917	9.7361	5.3554 - 1	4415.6	1.1437 + 24	400.62	4.7121 + 8	1.4772 - 6	28.964
23100	23016	9.7358	5.2709	4416.7	1.1257	400.71	4.6700	1.5008	28.964
23200	23116	9.7355	5.1875	4417.9	1.1080	400.80	4.6285	1.5249	28.964
23300	23215	9.7351	5.1054	4419.0	1.0905	400.89	4.5874	1.5493	28.964
23400	23314	9.7348	5.0251	4420.1	1.0733	400.98	4.5475	1.5740	28.964
23500	23413	9.7345	4.9458	4421.2	1.0564	401.07	4.5079	1.5992	28.964
23600	23513	9.7342	4.8679	4422.3	1.0398	401.16	4.4690	1.6248	28.964
23700	23612	9.7339	4.7912	4423.5	1.0235	401.26	4.4308	1.6507	28.964
23800	23711	9.7336	4.7157	4424.6	1.0074	401.35	4.3931	1.6771	28.964
23900	23810	9.7333	4.6415	4425.8	9.9155 + 23	401.44	4.3560	1.7039	28.964
24000	23910	9.7330	4.5685 - 1	4426.9	9.7598 + 23	401.53	4.3196 + 8	1.7310 - 6	28.964
24100	24009	9.7327	4.4966	4428.0	9.6066	401.62	4.2837	1.7587	28.964
24200	24108	9.7324	4.4259	4429.1	9.4559	401.71	4.2483	1.7867	28.964
24300	24207	9.7321	4.3564	4430.2	9.3074	401.80	4.2134	1.8151	28.964
24400	24307	9.7318	4.2880	4431.3	9.1618	401.89	4.1794	1.8440	28.964
24500	24406	9.7315	4.2207	4432.4	9.0182	401.98	4.1457	1.8734	28.964
24600	24505	9.7312	4.1545	4433.5	8.8770	402.07	4.1126	1.9032	28.964
24700	24604	9.7309	4.0893	4434.6	8.7381	402.16	4.0800	1.9334	28.964
24800	24704	9.7306	4.0252	4435.7	8.6014	402.25	4.0479	1.9642	28.964
24900	24803	9.7303	3.9622	4436.8	8.4670	402.34	4.0164	1.9954	28.964
25000	24902	9.7300	3.9001 - 1	4437.9	8.3346 + 23	402.43	3.9853 + 8	2.0270 - 6	28.964
25100	25001	9.7297	3.8391	4439.0	8.2045	402.52	3.9547	2.0592	28.964
25200	25100	9.7294	3.7790	4440.1	8.0764	402.61	3.9244	2.0919	28.964
25300	25200	9.7290	3.7200	4441.2	7.9503	402.70	3.8953	2.1250	28.964
25400	25299	9.7287	3.6618	4442.3	7.8263	402.79	3.8669	2.1587	28.964
25500	25398	9.7284	3.6046	4443.4	7.7043	402.88	3.8387	2.1929	28.964
25600	25497	9.7281	3.5483	4444.5	7.5842	402.97	3.8109	2.2274	28.964
25700	25597	9.7278	3.4930	4445.6	7.4661	403.06	3.7832	2.2622	28.964
25800	25696	9.7275	3.4385	4446.7	7.3499	403.15	3.7559	2.2984	28.964
25900	25795	9.7272	3.3849	4447.8	7.2355	403.24	3.7287	2.3350	28.964
26000	25894	9.7269	3.3321 - 1	4448.9	7.1230 + 23	403.33	3.7005 + 8	2.3719 - 6	28.964
26100	25993	9.7266	3.2802	4450.0	7.0122	403.42	3.6744	2.4093	28.964
26200	26092	9.7263	3.2291	4451.1	6.9033	403.51	3.6488	2.4473	28.964
26300	26192	9.7260	3.1789	4452.2	6.7961	403.60	3.6235	2.4860	28.964
26400	26291	9.7257	3.1294	4453.3	6.6905	403.69	3.5987	2.5252	28.964
26500	26390	9.7254	3.0808	4454.4	6.5867	403.78	3.5742	2.5650	28.964
26600	26489	9.7251	3.0329	4455.5	6.4844	403.87	3.5501	2.6054	28.964
26700	26588	9.7248	2.9858	4456.6	6.3840	403.96	3.5264	2.6464	28.964
26800	26687	9.7245	2.9394	4457.7	6.2851	404.05	3.5031	2.6880	28.964
26900	26787	9.7242	2.8938	4458.8	6.1878	404.14	3.4802	2.7303	28.964

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, \text{m/sec}^2$	Specific weight $\omega, \text{kg m}^3 \text{sec}^{-1}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
27000	27115	9.7235	2.7901 - 1	6602.5	5.9834 +23	404.33	1.4320 + 8	2.8235 - 6	28.964
27100	27216	9.7232	2.7544	6605.6	5.8902	404.42	1.4100	2.8682	28.964
27200	27317	9.7229	2.7114	6608.8	5.7984	404.51	1.3883	2.9137	28.964
27300	27418	9.7226	2.6690	6612.0	5.7081	404.60	1.3670	2.9598	28.964
27400	27519	9.7223	2.6274	6615.1	5.6192	404.69	1.3460	3.0066	28.964
27500	27620	9.7220	2.5864	6618.3	5.5317	404.78	1.3253	3.0542	28.964
27600	27720	9.7217	2.5461	6621.5	5.4454	404.87	1.3050	3.1024	28.964
27700	27821	9.7214	2.5064	6624.6	5.3609	404.96	1.2850	3.1515	28.964
27800	27922	9.7211	2.4673	6627.8	5.2775	405.05	1.2653	3.2012	28.964
27900	28023	9.7207	2.4289	6630.9	5.1953	405.14	1.2459	3.2518	28.964
28000	28124	9.7204	2.3911 - 1	6634.1	5.1146 +23	405.23	1.2268 + 8	3.3031 - 6	28.964
28100	28225	9.7201	2.3539	6637.3	5.0354	405.32	1.2080	3.3552	28.964
28200	28326	9.7198	2.3173	6640.4	4.9572	405.41	1.1894	3.4081	28.964
28300	28427	9.7195	2.2815	6643.6	4.8803	405.50	1.1714	3.4618	28.964
28400	28527	9.7192	2.2456	6646.8	4.8047	405.59	1.1535	3.5163	28.964
28500	28628	9.7189	2.2109	6649.9	4.7302	405.68	1.1358	3.5717	28.964
28600	28729	9.7186	2.1764	6653.1	4.6569	405.77	1.1185	3.6279	28.964
28700	28830	9.7183	2.1428	6656.3	4.5848	405.86	1.1016	3.6849	28.964
28800	28931	9.7180	2.1094	6659.4	4.5138	405.95	1.0846	3.7429	28.964
28900	29032	9.7177	2.0769	6662.6	4.4440	406.04	1.0681	3.8017	28.964
29000	29133	9.7174	2.0447 - 1	6665.7	4.3752 +23	406.13	1.0518 + 8	3.8615 - 6	28.964
29100	29234	9.7171	2.0130	6668.9	4.3074	406.22	1.0357	3.9220	28.964
29200	29335	9.7167	1.9819	6672.1	4.2411	406.31	1.0200	3.9836	28.964
29300	29436	9.7164	1.9512	6675.2	4.1755	406.40	1.0046	4.0461	28.964
29400	29537	9.7161	1.9210	6678.4	4.1111	406.49	9.8916 + 7	4.1095	28.964
29500	29638	9.7158	1.8913	6681.6	4.0474	406.58	9.7410	4.1740	28.964
29600	29739	9.7155	1.8621	6684.7	3.9852	406.67	9.5928	4.2393	28.964
29700	29840	9.7152	1.8333	6687.9	3.9238	406.76	9.4470	4.3057	28.964
29800	29940	9.7149	1.8050	6691.1	3.8633	406.85	9.3035	4.3731	28.964
29900	30041	9.7146	1.7771	6694.2	3.8038	406.94	9.1622	4.4415	28.964
30000	30142	9.7143	1.7497 - 1	6697.4	3.7452 +23	407.03	9.0231 + 7	4.5110 - 6	28.964
30100	30243	9.7140	1.7227	6700.6	3.6876	407.12	8.8862	4.5815	28.964
30200	30344	9.7137	1.6962	6703.7	3.6308	407.21	8.7514	4.6531	28.964
30300	30445	9.7134	1.6700	6706.9	3.5750	407.30	8.6187	4.7258	28.964
30400	30546	9.7131	1.6443	6710.1	3.5200	407.39	8.4881	4.7994	28.964
30500	30647	9.7128	1.6190	6713.2	3.4660	407.48	8.3595	4.8744	28.964
30600	30748	9.7125	1.5941	6716.4	3.4127	407.57	8.2330	4.9505	28.964
30700	30849	9.7121	1.5694	6719.6	3.3603	407.66	8.1084	5.0277	28.964
30800	30950	9.7118	1.5454	6722.7	3.3088	407.75	7.9857	5.1060	28.964
30900	31051	9.7115	1.5217	6725.9	3.2580	407.84	7.8649	5.1855	28.964
31000	31152	9.7112	1.4983 - 1	6729.1	3.2081 +23	407.93	7.7461 + 7	5.2663 - 6	28.964
31100	31253	9.7109	1.4753	6732.2	3.1589	408.02	7.6290	5.3482	28.964
31200	31354	9.7106	1.4527	6735.4	3.1105	408.11	7.5138	5.4316	28.964
31300	31455	9.7103	1.4304	6738.6	3.0629	408.20	7.4004	5.5159	28.964
31400	31556	9.7100	1.4084	6741.8	3.0160	408.29	7.2888	5.6016	28.964
31500	31657	9.7097	1.3869	6744.9	2.9699	408.38	7.1788	5.6884	28.964
31600	31758	9.7094	1.3654	6748.1	2.9245	408.47	7.0704	5.7770	28.964
31700	31859	9.7091	1.3447	6751.3	2.8798	408.56	6.9641	5.8664	28.964
31800	31960	9.7088	1.3241	6754.4	2.8358	408.65	6.8592	5.9576	28.964
31900	32061	9.7085	1.3038	6757.6	2.7925	408.73	6.7559	6.0500	28.964
32000	32162	9.7082	1.2839 - 1	6760.8	2.7499 +23	408.82	6.6542 + 7	6.1438 - 6	28.964
32100	32263	9.7079	1.2636	6764.0	2.7085	408.91	6.5537	6.2385	28.964
32200	32364	9.7076	1.2435	6767.2	2.6678	409.00	6.4538	6.3342	28.964
32300	32465	9.7073	1.2235	6770.4	2.6274	409.09	6.3543	6.4307	28.964
32400	32566	9.7069	1.2035	6773.6	2.5874	409.18	6.2553	6.5282	28.964
32500	32667	9.7066	1.1835	6776.8	2.5478	409.27	6.1568	6.6267	28.964
32600	32768	9.7063	1.1634	6780.0	2.5084	409.36	6.0588	6.7262	28.964
32700	32869	9.7060	1.1434	6783.2	2.4692	409.45	5.9613	6.8267	28.964
32800	32970	9.7057	1.1234	6786.4	2.4302	409.54	5.8643	6.9282	28.964
32900	33071	9.7054	1.1034	6789.6	2.3913	409.63	5.7678	7.0307	28.964
33000	33172	9.7051	1.0834	6792.8	2.3526	409.72	5.6718	7.1342	28.964
33100	33273	9.7048	1.0634	6796.0	2.3140	409.81	5.5763	7.2387	28.964
33200	33374	9.7045	1.0434	6799.2	2.2756	409.90	5.4813	7.3442	28.964
33300	33475	9.7042	1.0234	6802.4	2.2373	410.00	5.3868	7.4507	28.964
33400	33576	9.7039	1.0034	6805.6	2.1992	410.09	5.2928	7.5582	28.964
33500	33677	9.7036	9.8324 - 2	6808.8	2.1613	410.18	5.2000	7.6667	28.964
33600	33778	9.7033	9.6224 - 2	6812.0	2.1238	410.27	5.1084	7.7762	28.964
33700	33879	9.7030	9.4124 - 2	6815.2	2.0865	410.36	5.0180	7.8867	28.964
33800	33980	9.7027	9.2024 - 2	6818.4	2.0494	410.45	4.9286	7.9982	28.964
33900	34081	9.7024	8.9924 - 2	6821.6	2.0125	410.54	4.8400	8.1107	28.964
34000	34182	9.7021	8.7824 - 2	6824.8	1.9758	410.63	4.7524	8.2242	28.964
34100	34283	9.7018	8.5724 - 2	6828.0	1.9394	410.72	4.6658	8.3387	28.964
34200	34384	9.7015	8.3624 - 2	6831.2	1.9032	410.81	4.5800	8.4542	28.964
34300	34485	9.7012	8.1524 - 2	6834.4	1.8672	410.90	4.4950	8.5707	28.964
34400	34586	9.7009	7.9424 - 2	6837.6	1.8314	410.99	4.4108	8.6882	28.964
34500	34687	9.7006	7.7324 - 2	6840.8	1.7958	411.08	4.3274	8.8067	28.964
34600	34788	9.7003	7.5224 - 2	6844.0	1.7604	411.17	4.2448	8.9262	28.964
34700	34889	9.7000	7.3124 - 2	6847.2	1.7252	411.26	4.1629	9.0467	28.964
34800	34990	9.6997	7.1024 - 2	6850.4	1.6902	411.35	4.0818	9.1682	28.964
34900	35091	9.6994	6.8924 - 2	6853.6	1.6554	411.44	4.0014	9.2907	28.964
35000	35192	9.6991	6.6824 - 2	6856.8	1.6208	411.53	3.9218	9.4142	28.964
35100	35293	9.6988	6.4724 - 2	6860.0	1.5864	411.62	3.8430	9.5387	28.964
35200	35394	9.6985	6.2624 - 2	6863.2	1.5522	411.71	3.7648	9.6642	28.964
35300	35495	9.6982	6.0524 - 2	6866.4	1.5182	411.80	3.6872	9.7907	28.964
35400	35596	9.6979	5.8424 - 2	6869.6	1.4844	411.89	3.6102	9.9182	28.964
35500	35697	9.6976	5.6324 - 2	6872.8	1.4508	411.98	3.5338	10.0467	28.964
35600	35798	9.6973	5.4224 - 2	6876.0	1.4174	412.07	3.4580	10.1762	28.964
35700	35899	9.6970	5.2124 - 2	6879.2	1.3842	412.16	3.3828	10.3067	28.964
35800	35900	9.6967	5.0024 - 2	6882.4	1.3512	412.25	3.3082	10.4382	28.964
35900	36001	9.6964	4.7924 - 2	6885.6	1.3184	412.34	3.2342	10.5707	28.964
36000	36102	9.6961	4.5824 - 2	6888.8	1.2858	412.43	3.1608	10.7042	28.964
36100	36203	9.6958	4.3724 - 2	6892.0	1.2534	412.52	3.0880	10.8387	28.964
36200	36304	9.6955	4.1624 - 2	6895.2	1.2212	412.61	3.0158	10.9742	28.964
36300	36405	9.6952	3.9524 - 2	6898.4	1.1892	412.70	2.9442	11.1107	28.964
36400	36506	9.6949	3.7424 - 2	6901.6	1.1574	412.79	2.8732	11.2482	28.964
36500	36607	9.6946	3.5324 - 2	6904.8	1.1258	412.88	2.8028	11.3867	28.964
36600	36708	9.6943	3.3224 - 2	6908.0	1.0944	412.97	2.7330	11.5262	28.964
36700	36809	9.6940	3.1124 - 2	6911.2	1.0632	413.06	2.6638	11.6667	28.964
36800	36910	9.6937	2.9024 - 2	6914.4	1.0322	413.15	2.5952	11.8082	28.964
36900	37011	9.6934	2.6924 - 2	6917.6	1.0014	413.24	2.5272	11.9507	28.964
37000	37112	9.6931	2.4824 - 2	6920.8	0.9708	413.33	2.4600	12.0942	28.964
37100	37213	9.6928	2.2724 - 2	6924.0	0.9404	413.42	2.3934	12.2387	28.964
37200	37314	9.6925	2.0624 - 2	6927.2	0.9102	413.51	2.3274	12.3842	28.964

TABLE II.—Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity g, msec^{-2}	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{v}, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
27000	26884	9.7239	2.8489 - 1	6598.9	6.0920 +23	404.23	1.4576 + 8	1.7753 - 6	28.964
27100	26985	9.7234	2.8048	6602.0	5.9977	404.32	1.4354	2.8166	28.964
27200	27084	9.7233	2.7613	6605.1	5.9050	404.41	1.4135	2.8611	28.964
27300	27183	9.7229	2.7185	6608.3	5.8137	404.50	1.3917	2.9040	28.964
27400	27282	9.7226	2.6764	6611.4	5.7239	404.58	1.3707	2.9514	28.964
27500	27382	9.7223	2.6350	6614.5	5.6355	404.67	1.3499	2.9979	28.964
27600	27481	9.7220	2.5943	6617.7	5.5485	404.76	1.3293	3.0447	28.964
27700	27580	9.7217	2.5542	6620.8	5.4629	404.85	1.3091	3.0924	28.964
27800	27679	9.7214	2.5147	6624.0	5.3784	404.94	1.2892	3.1411	28.964
27900	27778	9.7211	2.4758	6627.1	5.2957	405.03	1.2694	3.1903	28.964
28000	27877	9.7208	2.4374 - 1	6630.3	5.2141 +23	405.12	1.2503 + 8	3.2402 - 6	28.964
28100	27976	9.7205	2.4000	6633.4	5.1338	405.21	1.2313	3.2909	28.964
28200	28075	9.7202	2.3630	6636.5	5.0548	405.30	1.2126	3.3425	28.964
28300	28175	9.7199	2.3264	6639.6	4.9775	405.38	1.1943	3.3945	28.964
28400	28274	9.7196	2.2907	6642.8	4.9005	405.48	1.1761	3.4474	28.964
28500	28373	9.7193	2.2554	6645.9	4.8251	405.57	1.1583	3.5016	28.964
28600	28472	9.7190	2.2207	6649.0	4.7510	405.64	1.1408	3.5560	28.964
28700	28571	9.7187	2.1865	6652.2	4.6780	405.73	1.1235	3.6115	28.964
28800	28670	9.7184	2.1529	6655.3	4.6062	405.80	1.1065	3.6679	28.964
28900	28769	9.7181	2.1198	6658.4	4.5356	405.89	1.0898	3.7249	28.964
29000	28868	9.7178	2.0872 - 1	6661.6	4.4660 +23	406.01	1.0733 + 8	3.7829 - 6	28.964
29100	28967	9.7175	2.0552	6664.7	4.3974	406.10	1.0571	3.8418	28.964
29200	29066	9.7172	2.0234	6667.8	4.3302	406.19	1.0411	3.9016	28.964
29300	29164	9.7169	1.9926	6671.0	4.2639	406.28	1.0254	3.9623	28.964
29400	29263	9.7166	1.9620	6674.1	4.1988	406.37	1.0099	4.0239	28.964
29500	29361	9.7163	1.9319	6677.3	4.1344	406.46	9.9468 + 7	4.0864	28.964
29600	29460	9.7159	1.9023	6680.4	4.0711	406.55	9.7967	4.1499	28.964
29700	29559	9.7156	1.8732	6683.5	4.0089	406.64	9.6490	4.2163	28.964
29800	29658	9.7153	1.8445	6686.7	3.9477	406.73	9.5037	4.2797	28.964
29900	29757	9.7150	1.8163	6689.8	3.8874	406.82	9.3606	4.3460	28.964
30000	29856	9.7147	1.7885 - 1	6692.9	3.8280 +23	406.91	9.2197 + 7	4.4134 - 6	28.964
30100	29955	9.7144	1.7612	6696.1	3.7694	406.99	9.0811	4.4818	28.964
30200	30054	9.7141	1.7342	6699.2	3.7121	407.08	8.9445	4.5512	28.964
30300	30153	9.7138	1.7078	6702.3	3.6555	407.17	8.8101	4.6214	28.964
30400	30252	9.7135	1.6817	6705.5	3.5998	407.26	8.6778	4.6932	28.964
30500	30351	9.7132	1.6560	6708.6	3.5450	407.35	8.5475	4.7657	28.964
30600	30450	9.7129	1.6308	6711.8	3.4911	407.44	8.4192	4.8394	28.964
30700	30549	9.7126	1.6059	6714.9	3.4380	407.53	8.2929	4.9142	28.964
30800	30648	9.7123	1.5814	6718.0	3.3857	407.62	8.1684	4.9901	28.964
30900	30747	9.7120	1.5573	6721.2	3.3342	407.71	8.0462	5.0671	28.964
31000	30846	9.7117	1.5334 - 1	6724.3	3.2835 +23	407.79	7.9256 + 7	5.1453 - 6	28.964
31100	30945	9.7114	1.5103	6727.4	3.2337	407.88	7.8070	5.2244	28.964
31200	31044	9.7111	1.4875	6730.6	3.1846	407.97	7.6901	5.3051	28.964
31300	31143	9.7108	1.4647	6733.7	3.1363	408.06	7.5751	5.3869	28.964
31400	31242	9.7105	1.4424	6736.9	3.0887	408.15	7.4619	5.4698	28.964
31500	31341	9.7102	1.4205	6740.0	3.0419	408.24	7.3503	5.5540	28.964
31600	31440	9.7099	1.3990	6743.1	2.9958	408.33	7.2405	5.6394	28.964
31700	31539	9.7096	1.3777	6746.3	2.9504	408.42	7.1324	5.7262	28.964
31800	31638	9.7093	1.3568	6749.4	2.9058	408.50	7.0260	5.8142	28.964
31900	31737	9.7090	1.3363	6752.6	2.8618	408.59	6.9217	5.9035	28.964
32000	31836	9.7086	1.3160 - 1	6755.7	2.8185 +23	408.68	6.8180 + 7	5.9942 - 6	28.964
32100	31935	9.7083	1.2961	6758.8	2.7752	408.77	6.7153	6.0861	28.964
32200	32034	9.7080	1.2764	6761.9	2.7322	408.86	6.6131	6.1791	28.964
32300	32133	9.7077	1.2570	6765.0	2.6897	408.95	6.5113	6.2731	28.964
32400	32232	9.7074	1.2378	6768.1	2.6472	409.04	6.4100	6.3681	28.964
32500	32331	9.7071	1.2187	6771.2	2.6047	409.13	6.3091	6.4641	28.964
32600	32430	9.7068	1.1998	6774.3	2.5622	409.22	6.2086	6.5611	28.964
32700	32529	9.7065	1.1810	6777.4	2.5200	409.31	6.1084	6.6591	28.964
32800	32628	9.7062	1.1624	6780.5	2.4782	409.40	6.0086	6.7581	28.964
32900	32727	9.7059	1.1439	6783.6	2.4367	409.49	5.9091	6.8581	28.964
33000	32826	9.7056	1.1255	6786.7	2.3954	409.58	5.8100	6.9591	28.964
33100	32925	9.7053	1.1072	6789.8	2.3543	409.67	5.7113	7.0611	28.964
33200	33024	9.7050	1.0890	6792.9	2.3134	409.76	5.6130	7.1641	28.964
33300	33123	9.7047	1.0709	6796.0	2.2726	409.85	5.5151	7.2681	28.964
33400	33222	9.7044	1.0529	6799.1	2.2320	409.94	5.4176	7.3731	28.964
33500	33321	9.7041	1.0349	6802.2	2.1916	410.03	5.3204	7.4791	28.964
33600	33420	9.7038	1.0170	6805.3	2.1513	410.12	5.2236	7.5861	28.964
33700	33519	9.7035	9.9922 - 2	6808.4	2.1113	410.21	5.1271	7.6941	28.964
33800	33618	9.7032	9.8772 - 2	6811.5	2.0715	410.30	5.0310	7.8031	28.964
33900	33717	9.7029	9.7624 - 2	6814.6	2.0318	410.39	4.9352	7.9131	28.964
34000	33816	9.7026	9.6477 - 2	6817.7	1.9922	410.48	4.8400	8.0241	28.964
34100	33915	9.7023	9.5331 - 2	6820.8	1.9526	410.57	4.7451	8.1361	28.964
34200	34014	9.7020	9.4185 - 2	6823.9	1.9131	410.66	4.6506	8.2491	28.964
34300	34113	9.7017	9.3040 - 2	6827.0	1.8737	410.75	4.5564	8.3631	28.964
34400	34212	9.7014	9.1894 - 2	6830.1	1.8343	410.84	4.4626	8.4781	28.964
34500	34311	9.7011	9.0749 - 2	6833.2	1.7950	410.93	4.3691	8.5941	28.964
34600	34410	9.7008	8.9603 - 2	6836.3	1.7558	411.02	4.2759	8.7111	28.964
34700	34509	9.7005	8.8458 - 2	6839.4	1.7166	411.11	4.1830	8.8291	28.964
34800	34608	9.7002	8.7312 - 2	6842.5	1.6774	411.20	4.0904	8.9481	28.964
34900	34707	9.6999	8.6167 - 2	6845.6	1.6382	411.29	4.0000	9.0681	28.964
35000	34806	9.6996	8.5021 - 2	6848.7	1.5990	411.38	3.9100	9.1891	28.964
35100	34905	9.6993	8.3875 - 2	6851.8	1.5600	411.47	3.8204	9.3111	28.964
35200	35004	9.6990	8.2729 - 2	6854.9	1.5210	411.56	3.7311	9.4341	28.964
35300	35103	9.6987	8.1583 - 2	6858.0	1.4820	411.65	3.6421	9.5581	28.964
35400	35202	9.6984	8.0437 - 2	6861.1	1.4430	411.74	3.5534	9.6831	28.964
35500	35301	9.6981	7.9291 - 2	6864.2	1.4040	411.83	3.4650	9.8091	28.964
35600	35400	9.6978	7.8145 - 2	6867.3	1.3650	411.92	3.3768	9.9361	28.964
35700	35499	9.6975	7.7000 - 2	6870.4	1.3260	412.01	3.2888	10.0641	28.964
35800	35598	9.6972	7.5854 - 2	6873.5	1.2870	412.10	3.2010	10.1931	28.964
35900	35697	9.6969	7.4708 - 2	6876.6	1.2480	412.19	3.1134	10.3231	28.964
36000	35796	9.6966	7.3562 - 2	6879.7	1.2090	412.28	3.0260	10.4541	28.964
36100	35895	9.6963	7.2416 - 2	6882.8	1.1700	412.37	2.9388	10.5861	28.964
36200	35994	9.6960	7.1270 - 2	6885.9	1.1310	412.46	2.8518	10.7191	28.964
36300	36093	9.6957	7.0124 - 2	6889.0	1.0920	412.55	2.7650	10.8531	28.964
36400	36192	9.6954	6.8978 - 2	6892.1	1.0530	412.64	2.6784	10.9881	28.964
36500	36291	9.6951	6.7832 - 2	6895.2	1.0140	412.73	2.5920	11.1241	28.964
36600	36390	9.6948	6.6686 - 2	6898.3	0.9750	412.82	2.5058	11.2611	28.964
36700	36489	9.6945	6.5540 - 2	6901.4	0.9360	412.91	2.4200	11.3991	28.964
36800	36588	9.6942	6.4394 - 2	6904.5	0.8970	413.00	2.3344	11.5381	28.964
36900	36687	9.6939	6.3248 - 2	6907.6	0.8580	413.09	2.2490	11.6781	28.964
37000	36786	9.6936	6.2102 - 2	6910.7	0.8190	413.18	2.1638	11.8191	28.964
37100	36885	9.6933	6.0956 - 2	6913.8	0.7800	413.27	2.0788	11.9611	28.964
37200	36984	9.6930	5.9810 - 2	6916.9	0.7410	413.36	2.0000	12.1041	28.964
37300	3708								

TABLE II.—Continued

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, m/sec^2$	Specific weight $\gamma, kg/m^3$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
32000	32229	9.6097	3.0239 - 2	7271.3	1.0705 +23	423.56	2.7000 + 7	1.5665 - 5	28.964
32100	32331	9.6091	3.0247	7280.6	1.0693	424.04	2.6269	1.6143	28.964
32200	32433	9.6085	3.0253	7290.0	1.0681	424.52	2.5521	1.6625	28.964
32300	32535	9.6079	3.0259	7300.0	9.0563 +22	425.00	2.4796	1.7101	28.964
32400	32637	9.6073	3.0265	7310.0	9.0552	425.48	2.4072	1.7577	28.964
32500	32739	9.6067	3.0271	7320.0	9.0542	425.96	2.3347	1.8053	28.964
32600	32841	9.6061	3.0277	7330.0	9.0532	426.44	2.2623	1.8529	28.964
32700	32943	9.6055	3.0283	7340.0	9.0522	426.92	2.1898	1.9005	28.964
32800	33045	9.6049	3.0289	7350.0	9.0512	427.40	2.1174	1.9481	28.964
32900	33147	9.6043	3.0295	7360.0	9.0502	427.88	2.0450	1.9957	28.964
33000	33249	9.6037	3.0301	7370.0	9.0492	428.36	1.9726	2.0433	28.964
33100	33351	9.6031	3.0307	7380.0	9.0482	428.84	1.9002	2.0909	28.964
33200	33453	9.6025	3.0313	7390.0	9.0472	429.32	1.8278	2.1385	28.964
33300	33555	9.6019	3.0319	7400.0	9.0462	429.80	1.7554	2.1861	28.964
33400	33657	9.6013	3.0325	7410.0	9.0452	430.28	1.6830	2.2337	28.964
33500	33759	9.6007	3.0331	7420.0	9.0442	430.76	1.6106	2.2813	28.964
33600	33861	9.6001	3.0337	7430.0	9.0432	431.24	1.5382	2.3289	28.964
33700	33963	9.5995	3.0343	7440.0	9.0422	431.72	1.4658	2.3765	28.964
33800	34065	9.5989	3.0349	7450.0	9.0412	432.20	1.3934	2.4241	28.964
33900	34167	9.5983	3.0355	7460.0	9.0402	432.68	1.3210	2.4717	28.964
34000	34269	9.5977	3.0361	7470.0	9.0392	433.16	1.2486	2.5193	28.964
34100	34371	9.5971	3.0367	7480.0	9.0382	433.64	1.1762	2.5669	28.964
34200	34473	9.5965	3.0373	7490.0	9.0372	434.12	1.1038	2.6145	28.964
34300	34575	9.5959	3.0379	7500.0	9.0362	434.60	1.0314	2.6621	28.964
34400	34677	9.5953	3.0385	7510.0	9.0352	435.08	0.9590	2.7097	28.964
34500	34779	9.5947	3.0391	7520.0	9.0342	435.56	0.8866	2.7573	28.964
34600	34881	9.5941	3.0397	7530.0	9.0332	436.04	0.8142	2.8049	28.964
34700	34983	9.5935	3.0403	7540.0	9.0322	436.52	0.7418	2.8525	28.964
34800	35085	9.5929	3.0409	7550.0	9.0312	437.00	0.6694	2.8999	28.964
34900	35187	9.5923	3.0415	7560.0	9.0302	437.48	0.5970	2.9475	28.964
35000	35289	9.5917	3.0421	7570.0	9.0292	437.96	0.5246	3.0000	28.964
35100	35391	9.5911	3.0427	7580.0	9.0282	438.44	0.4522	3.0526	28.964
35200	35493	9.5905	3.0433	7590.0	9.0272	438.92	0.3798	3.1052	28.964
35300	35595	9.5899	3.0439	7600.0	9.0262	439.40	0.3074	3.1578	28.964
35400	35697	9.5893	3.0445	7610.0	9.0252	439.88	0.2350	3.2104	28.964
35500	35799	9.5887	3.0451	7620.0	9.0242	440.36	0.1626	3.2630	28.964
35600	35901	9.5881	3.0457	7630.0	9.0232	440.84	0.0902	3.3156	28.964
35700	36003	9.5875	3.0463	7640.0	9.0222	441.32	0.0178	3.3682	28.964
35800	36105	9.5869	3.0469	7650.0	9.0212	441.80	0.0000	3.4208	28.964
35900	36207	9.5863	3.0475	7660.0	9.0202	442.28	0.0000	3.4734	28.964
36000	36309	9.5857	3.0481	7670.0	9.0192	442.76	0.0000	3.5260	28.964
36100	36411	9.5851	3.0487	7680.0	9.0182	443.24	0.0000	3.5786	28.964
36200	36513	9.5845	3.0493	7690.0	9.0172	443.72	0.0000	3.6312	28.964
36300	36615	9.5839	3.0499	7700.0	9.0162	444.20	0.0000	3.6838	28.964
36400	36717	9.5833	3.0505	7710.0	9.0152	444.68	0.0000	3.7364	28.964
36500	36819	9.5827	3.0511	7720.0	9.0142	445.16	0.0000	3.7890	28.964
36600	36921	9.5821	3.0517	7730.0	9.0132	445.64	0.0000	3.8416	28.964
36700	37023	9.5815	3.0523	7740.0	9.0122	446.12	0.0000	3.8942	28.964
36800	37125	9.5809	3.0529	7750.0	9.0112	446.60	0.0000	3.9468	28.964
36900	37227	9.5803	3.0535	7760.0	9.0102	447.08	0.0000	4.0000	28.964
37000	37329	9.5797	3.0541	7770.0	9.0092	447.56	0.0000	4.0526	28.964
37100	37431	9.5791	3.0547	7780.0	9.0082	448.04	0.0000	4.1052	28.964
37200	37533	9.5785	3.0553	7790.0	9.0072	448.52	0.0000	4.1578	28.964
37300	37635	9.5779	3.0559	7800.0	9.0062	449.00	0.0000	4.2104	28.964
37400	37737	9.5773	3.0565	7810.0	9.0052	449.48	0.0000	4.2630	28.964
37500	37839	9.5767	3.0571	7820.0	9.0042	449.96	0.0000	4.3156	28.964
37600	37941	9.5761	3.0577	7830.0	9.0032	450.44	0.0000	4.3682	28.964
37700	38043	9.5755	3.0583	7840.0	9.0022	450.92	0.0000	4.4208	28.964
37800	38145	9.5749	3.0589	7850.0	9.0012	451.40	0.0000	4.4734	28.964
37900	38247	9.5743	3.0595	7860.0	9.0002	451.88	0.0000	4.5260	28.964
38000	38349	9.5737	3.0601	7870.0	9.0000	452.36	0.0000	4.5786	28.964
38100	38451	9.5731	3.0607	7880.0	9.0000	452.84	0.0000	4.6312	28.964
38200	38553	9.5725	3.0613	7890.0	9.0000	453.32	0.0000	4.6838	28.964
38300	38655	9.5719	3.0619	7900.0	9.0000	453.80	0.0000	4.7364	28.964
38400	38757	9.5713	3.0625	7910.0	9.0000	454.28	0.0000	4.7890	28.964
38500	38859	9.5707	3.0631	7920.0	9.0000	454.76	0.0000	4.8416	28.964
38600	38961	9.5701	3.0637	7930.0	9.0000	455.24	0.0000	4.8942	28.964
38700	39063	9.5695	3.0643	7940.0	9.0000	455.72	0.0000	4.9468	28.964
38800	39165	9.5689	3.0649	7950.0	9.0000	456.20	0.0000	5.0000	28.964
38900	39267	9.5683	3.0655	7960.0	9.0000	456.68	0.0000	5.0526	28.964
39000	39369	9.5677	3.0661	7970.0	9.0000	457.16	0.0000	5.1052	28.964
39100	39471	9.5671	3.0667	7980.0	9.0000	457.64	0.0000	5.1578	28.964
39200	39573	9.5665	3.0673	7990.0	9.0000	458.12	0.0000	5.2104	28.964
39300	39675	9.5659	3.0679	8000.0	9.0000	458.60	0.0000	5.2630	28.964
39400	39777	9.5653	3.0685	8010.0	9.0000	459.08	0.0000	5.3156	28.964
39500	39879	9.5647	3.0691	8020.0	9.0000	459.56	0.0000	5.3682	28.964
39600	39981	9.5641	3.0697	8030.0	9.0000	460.04	0.0000	5.4208	28.964
39700	40083	9.5635	3.0703	8040.0	9.0000	460.52	0.0000	5.4734	28.964
39800	40185	9.5629	3.0709	8050.0	9.0000	461.00	0.0000	5.5260	28.964
39900	40287	9.5623	3.0715	8060.0	9.0000	461.48	0.0000	5.5786	28.964
40000	40389	9.5617	3.0721	8070.0	9.0000	461.96	0.0000	5.6312	28.964
40100	40491	9.5611	3.0727	8080.0	9.0000	462.44	0.0000	5.6838	28.964
40200	40593	9.5605	3.0733	8090.0	9.0000	462.92	0.0000	5.7364	28.964
40300	40695	9.5599	3.0739	8100.0	9.0000	463.40	0.0000	5.7890	28.964
40400	40797	9.5593	3.0745	8110.0	9.0000	463.88	0.0000	5.8416	28.964
40500	40899	9.5587	3.0751	8120.0	9.0000	464.36	0.0000	5.8942	28.964
40600	40901	9.5581	3.0757	8130.0	9.0000	464.84	0.0000	5.9468	28.964
40700	41003	9.5575	3.0763	8140.0	9.0000	465.32	0.0000	6.0000	28.964
40800	41105	9.5569	3.0769	8150.0	9.0000	465.80	0.0000	6.0526	28.964
40900	41207	9.5563	3.0775	8160.0	9.0000	466.28	0.0000	6.1052	28.964
41000	41309	9.5557	3.0781	8170.0	9.0000	466.76	0.0000	6.1578	28.964
41100	41411	9.5551	3.0787	8180.0	9.0000	467.24	0.0000	6.2104	28.964
41200	41513	9.5545	3.0793	8190.0	9.0000	467.72	0.0000	6.2630	28.964
41300	41615	9.5539	3.0799	8200.0	9.0000	468.20	0.0000	6.3156	28.964
41400	41717	9.5533	3.0805	8210.0	9.0000	468.68	0.0000	6.3682	28.964
41500	41819	9.5527	3.0811	8220.0	9.0000	469.16	0.0000	6.4208	28.964
41600	41921	9.5521	3.0817	8230.0	9.0000	469.64	0.0000	6.4734	28.964
41700	42023	9.5515	3.0823	8240.0	9.0000	470.12	0.0000	6.5260	28.964
41800	42125	9.5509	3.0829	8250.0	9.0000	470.60	0.0000	6.5786	28.964
41900	42227	9.5503	3.0835	8260.0	9.0000	471.08	0.0000	6.6312	28.964
42000	42329	9.5497	3.0841	8270.0	9.0000	471.56	0.0000	6.6838	28.964
42100	42431	9.5491	3.0847	8280.0	9.0000	472.04	0.0000	6.7364	28.964
42200	42533	9.5485	3.0853	8290.0	9.0000	472.52	0.0000	6.7890	28.964
42300	42635	9.5479	3.0859	8300.0	9.0000	473.00	0.0000	6.8416	28.964
42400	42737	9.5473	3.0865	8310.0	9.0000	473.48	0.0000	6.8942	28.964

TABLE II--Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, \text{m/sec}^2$	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{V}, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
38000	37774	9.6904	3.2004 - 2	7252.1	1.1150 +21	423.03	2.7991 + 7	1.5160 - 5	28.966
38200	37972	9.6898	3.2076	7268.9	1.0931	423.51	2.7151	1.5598	28.966
38400	38169	9.6892	3.2148	7285.8	1.0716	423.99	2.6385	1.6069	28.966
38600	38367	9.6886	3.2220	7302.6	1.0502	424.46	2.5643	1.6553	28.966
38800	38565	9.6880	3.2292	7319.5	1.0287	424.94	2.4925	1.7050	28.966
39000	38762	9.6874	3.2364	7336.3	1.0074	425.41	2.4225	1.7561	28.966
39200	38960	9.6868	3.2436	7353.2	9.8511	425.89	2.3547	1.8084	28.966
39400	39157	9.6862	3.2508	7370.0	9.6705	426.36	2.2891	1.8624	28.966
39600	39355	9.6856	3.2580	7386.9	9.4900	426.84	2.2254	1.9180	28.966
39800	39552	9.6850	3.2652	7403.7	9.3103	427.31	2.1636	1.9750	28.966
40000	39750	9.6844	3.2724	7420.6	9.1308	427.78	2.1037 + 7	2.0335 - 5	28.966
40200	39947	9.6838	3.2796	7437.4	8.9520	428.26	2.0456	2.0950	28.966
40400	40145	9.6832	3.2868	7454.3	8.7736	428.73	1.9892	2.1555	28.966
40600	40342	9.6826	3.2940	7471.1	8.5954	429.20	1.9346	2.2187	28.966
40800	40540	9.6820	3.3012	7488.0	8.4174	429.67	1.8813	2.2839	28.966
41000	40737	9.6813	3.3084	7504.9	8.2400	430.14	1.8298	2.3508	28.966
41200	40935	9.6807	3.3156	7521.7	8.0632	430.61	1.7798	2.4194	28.966
41400	41132	9.6801	3.3228	7538.6	7.8871	431.08	1.7313	2.4900	28.966
41600	41329	9.6795	3.3300	7555.4	7.7116	431.55	1.6841	2.5624	28.966
41800	41527	9.6789	3.3372	7572.3	7.5363	432.01	1.6384	2.6368	28.966
42000	41724	9.6783	3.3444	7589.2	7.3614	432.48	1.5940 + 7	2.7131 - 5	28.966
42200	41922	9.6777	3.3516	7606.0	7.1870	432.95	1.5509	2.7915	28.966
42400	42119	9.6771	3.3588	7622.9	7.0132	433.41	1.5091	2.8720	28.966
42600	42316	9.6765	3.3660	7639.8	6.8400	433.88	1.4685	2.9546	28.966
42800	42514	9.6759	3.3732	7656.7	6.6674	434.35	1.4291	3.0394	28.966
43000	42711	9.6753	3.3804	7673.5	6.4954	434.81	1.3908	3.1264	28.966
43200	42908	9.6747	3.3876	7690.4	6.3239	435.27	1.3536	3.2157	28.966
43400	43106	9.6741	3.3948	7707.3	6.1520	435.74	1.3175	3.3074	28.966
43600	43303	9.6735	3.4020	7724.1	5.9806	436.20	1.2824	3.4014	28.966
43800	43500	9.6729	3.4092	7741.0	5.8097	436.66	1.2483	3.4980	28.966
44000	43697	9.6723	3.4164	7757.9	5.6394	437.13	1.2152 + 7	3.5970 - 5	28.966
44200	43895	9.6717	3.4236	7774.8	5.4696	437.59	1.1831	3.6987	28.966
44400	44092	9.6711	3.4308	7791.7	5.2999	438.05	1.1519	3.8029	28.966
44600	44289	9.6705	3.4380	7808.6	5.1306	438.51	1.1215	3.9099	28.966
44800	44486	9.6699	3.4452	7825.5	4.9614	438.97	1.0921	4.0197	28.966
45000	44684	9.6693	3.4524	7842.3	4.7924	439.43	1.0634	4.1322	28.966
45200	44881	9.6687	3.4596	7859.2	4.6234	439.89	1.0354	4.2477	28.966
45400	45078	9.6681	3.4668	7876.1	4.4546	440.35	1.0085	4.3662	28.966
45600	45275	9.6675	3.4740	7893.0	4.2859	440.80	9.8225 + 6	4.4877	28.966
45800	45472	9.6669	3.4812	7909.8	4.1174	441.26	9.5671	4.6123	28.966
46000	45669	9.6663	3.4884	7926.7	3.9490	441.72	9.3188 + 6	4.7401 - 5	28.966
46200	45867	9.6657	3.4956	7943.6	3.7808	442.17	9.0773	4.8711	28.966
46400	46064	9.6651	3.5028	7960.5	3.6128	442.63	8.8429	5.0055	28.966
46600	46261	9.6645	3.5100	7977.4	3.4450	443.09	8.6169	5.1433	28.966
46800	46458	9.6639	3.5172	7994.3	3.2774	443.54	8.3932	5.2845	28.966
47000	46655	9.6633	3.5244	8011.2	3.1100	444.00	8.1777	5.4294	28.966
47200	46852	9.6627	3.5316	8028.1	2.9428	444.45	7.9681	5.5779	28.966
47400	47049	9.6621	3.5388	8045.0	2.7758	444.91	7.7663	5.7272	28.966
47600	47246	9.6615	3.5460	8061.9	2.6088	445.37	7.5755	5.8774	28.966
47800	47443	9.6609	3.5532	8078.8	2.4414	445.82	7.3894	6.0193	28.966
48000	47640	9.6603	3.5604	8095.7	2.2740	446.28	7.2079 + 6	6.1709 - 5	28.966
48200	47837	9.6597	3.5676	8112.6	2.1068	446.73	7.0309	6.3262	28.966
48400	48034	9.6591	3.5748	8129.5	1.9396	447.19	6.8582	6.4855	28.966
48600	48231	9.6585	3.5820	8146.4	1.7724	447.64	6.6898	6.6488	28.966
48800	48428	9.6579	3.5892	8163.3	1.6052	448.10	6.5253	6.8162	28.966
49000	48625	9.6573	3.5964	8180.2	1.4380	448.55	6.3653	6.9878	28.966
49200	48822	9.6567	3.6036	8197.1	1.2708	449.01	6.2090	7.1633	28.966
49400	49019	9.6561	3.6108	8214.0	1.1036	449.46	6.0565	7.3440	28.966
49600	49216	9.6555	3.6180	8230.9	1.0364	449.91	5.9079	7.5288	28.966
49800	49413	9.6549	3.6252	8247.8	0.9692	450.37	5.7628	7.7183	28.966
50000	49610	9.6543	3.6324	8264.7	0.9020	450.82	5.6214 + 6	7.9125 - 5	28.966
50200	49807	9.6537	3.6396	8281.6	0.8348	451.28	5.4828	8.1197	28.966
50400	50004	9.6531	3.6468	8298.5	0.7676	451.73	5.3464	8.3303	28.966
50600	50201	9.6525	3.6540	8315.4	0.7004	452.19	5.2120	8.5440	28.966
50800	50398	9.6519	3.6612	8332.3	0.6332	452.64	5.0796	8.7600	28.966
51000	50595	9.6513	3.6684	8349.2	0.5660	453.10	4.9491	8.9784	28.966
51200	50792	9.6507	3.6756	8366.1	0.4988	453.55	4.8205	9.1992	28.966
51400	50989	9.6501	3.6828	8383.0	0.4316	454.01	4.6937	9.4224	28.966
51600	51186	9.6495	3.6900	8400.0	0.3644	454.46	4.5688	9.6480	28.966
51800	51383	9.6489	3.6972	8416.9	0.2972	454.91	4.4457	9.8760	28.966
52000	51580	9.6483	3.7044	8433.8	0.2300	455.37	4.3244	10.1064	28.966
52200	51777	9.6477	3.7116	8450.7	0.1628	455.82	4.2049	10.3392	28.966
52400	51974	9.6471	3.7188	8467.6	0.0956	456.28	4.0872	10.5744	28.966
52600	52171	9.6465	3.7260	8484.5	0.0284	456.73	3.9713	10.8120	28.966
52800	52368	9.6459	3.7332	8501.4	0.0000	457.19	3.8572	11.0520	28.966
53000	52565	9.6453	3.7404	8518.3	0.0000	457.64	3.7449	11.2944	28.966
53200	52762	9.6447	3.7476	8535.2	0.0000	458.10	3.6344	11.5392	28.966
53400	52959	9.6441	3.7548	8552.1	0.0000	458.55	3.5257	11.7864	28.966
53600	53156	9.6435	3.7620	8569.0	0.0000	459.01	3.4188	12.0360	28.966
53800	53353	9.6429	3.7692	8585.9	0.0000	459.46	3.3137	12.2880	28.966
54000	53550	9.6423	3.7764	8602.8	0.0000	459.91	3.2104	12.5424	28.966
54200	53747	9.6417	3.7836	8619.7	0.0000	460.37	3.1088	12.7992	28.966
54400	53944	9.6411	3.7908	8636.6	0.0000	460.82	3.0089	13.0584	28.966
54600	54141	9.6405	3.7980	8653.5	0.0000	461.28	2.9107	13.3200	28.966
54800	54338	9.6399	3.8052	8670.4	0.0000	461.73	2.8141	13.5840	28.966
55000	54535	9.6393	3.8124	8687.3	0.0000	462.19	2.7191	13.8504	28.966
55200	54732	9.6387	3.8196	8704.2	0.0000	462.64	2.6257	14.1192	28.966
55400	54929	9.6381	3.8268	8721.1	0.0000	463.10	2.5339	14.3904	28.966
55600	55126	9.6375	3.8340	8738.0	0.0000	463.55	2.4437	14.6640	28.966
55800	55323	9.6369	3.8412	8754.9	0.0000	464.01	2.3549	14.9400	28.966
56000	55520	9.6363	3.8484	8771.8	0.0000	464.46	2.2675	15.2184	28.966
56200	55717	9.6357	3.8556	8788.7	0.0000	464.91	2.1815	15.4992	28.966
56400	55914	9.6351	3.8628	8805.6	0.0000	465.37	2.0969	15.7824	28.966
56600	56111	9.6345	3.8700	8822.5	0.0000	465.82	2.0137	16.0680	28.966
56800	56308	9.6339	3.8772	8839.4	0.0000	466.28	1.9319	16.3560	28.966
57000	56505	9.6333	3.8844	8856.3	0.0000	466.73	1.8515	16.6464	28.966
57200	56702	9.6327	3.8916	8873.2	0.0000	467.19	1.7725	16.9392	28.966
57400	56899	9.6321	3.8988	8890.1	0.0000	467.64	1.6949	17.2344	28.966
57600	57096	9.6315	3.9060	8907.0	0.0000	468.10	1.6187	17.5320	28.966
57800	57293	9.6309	3.9132	8923.9	0.0000	468.55	1.5439	17.8320	28.966
58000	57490	9.6303	3.9204	8940.8	0.0000	469.01	1.4704	18.1344	28.966
58200	57687	9.6297	3.9276	8957.7	0.0000	469.46	1.3982	18.4392	28.966
58400	57884	9.6291	3.9348	8974.6	0.0000	469.91	1.3273	18.7464	28.966
58600	58081	9.6285	3.9420	8991.5	0.0000	470.37	1.2577	19.0560	28.966
58800	58278								

TABLE II.—Concluded

GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m sec}^{-2}$	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
H, m	Z, m								
60000	60372	0.6224	2.7627 - 3	7596.7	5.9267 +21	431.44	1.5135 + 4	2.6506 - 4	28.964
60500	61001	0.6208	2.3761	7560.0	5.9633	430.59	1.6179	3.0368	28.964
61000	61591	0.6193	2.4153	7530.4	5.9209	429.74	1.3280	1.2340	28.964
61500	62181	0.6178	2.3764	7499.9	6.0172	428.04	1.2658	1.4358	28.964
62000	62611	0.6163	2.1408	7422.4	6.6289	426.33	1.1461	1.6498	28.964
62500	63121	0.6147	2.0160	7365.9	6.1554	424.61	1.0944	1.6740	28.964
63000	63521	0.6132	1.8937	7305.3	6.0961	422.89	1.0253	4.1246	28.964
63500	64141	0.6117	1.7798	7244.7	5.8502	421.15	0.9779 + 3	4.3880	28.964
64000	64651	0.6101	1.6718	7188.2	5.6173	419.41	0.9800	4.6766	28.964
64500	65161	0.6086	1.5696	7129.6	5.3964	417.67	0.9771	4.9739	28.964
65000	65672	0.6071	1.4729 - 3	7070.9	5.1878 +21	415.91	7.8477 + 5	5.2998 - 4	28.964
65500	66182	0.6056	1.3815	7012.3	5.9902	414.15	7.3500	5.4501	28.964
66000	66693	0.6040	1.2948	6953.6	2.8032	412.38	6.8425	6.0268	28.964
66500	67203	0.6025	1.2150	6894.9	2.4265	410.61	6.3656	6.4125	28.964
67000	67714	0.6010	1.1357	6836.2	2.0596	408.85	5.9518	6.8287	28.964
67500	68225	0.5995	1.0427	6777.5	2.3010	407.09	5.5459	7.3393	28.964
68000	68735	0.5979	0.9386 - 4	6718.8	2.1531	405.23	5.1644	7.8466	28.964
68500	69246	0.5964	0.8280	6660.0	2.0127	403.42	4.8061	8.3940	28.964
69000	69757	0.5949	0.7666	6601.3	1.8805	401.61	4.4697	0.9851	28.964
69500	70268	0.5933	0.6996	6542.5	1.7553	399.78	4.1542	0.4237	28.964
70000	70780	0.5918	7.5561 - 4	6483.6	1.6380 +21	397.95	3.8583 + 5	1.0314 - 3	28.964
70500	71291	0.5903	7.0446	6424.8	1.5274	396.11	3.5810	1.1061	28.964
71000	71802	0.5888	6.5636	6366.0	1.4233	394.26	3.3214	1.1870	28.964
71500	72314	0.5872	6.1110	6307.1	1.3254	392.40	3.0784	1.2747	28.964
72000	72825	0.5857	5.6859	6248.2	1.2334	390.54	2.8511	1.3698	28.964
72500	73337	0.5842	5.2868	6189.3	1.1470	388.68	2.6384	1.4730	28.964
73000	73848	0.5827	4.9122	6130.4	1.0659	386.77	2.4401	1.5851	28.964
73500	74360	0.5811	4.5608	6071.4	9.8978 +20	384.88	2.2548	1.7049	28.964
74000	74872	0.5796	4.2315	6012.5	9.1844	382.98	2.0820	1.8395	28.964
74500	75384	0.5781	3.9230	5953.5	8.5163	381.06	1.9209	1.9838	28.964
75000	75896	0.577	3.634 - 4	5894.	7.891 +20	379.1	1.771 + 5	2.141 - 3	28.964
75500	76408	0.575	3.364	5835.	7.305	377.2	1.631	2.313	28.964
76000	76920	0.574	3.111	5776.	6.758	375.3	1.501	2.500	28.964
76500	77432	0.572	2.876	5717.	6.244	373.3	1.380	2.705	28.964
77000	77944	0.570	2.655	5658.	5.749	371.3	1.268	2.929	28.964
77500	78457	0.569	2.450	5599.	5.323	369.4	1.164	3.174	28.964
78000	78969	0.567	2.258	5540.	4.908	367.4	1.067	3.442	28.964
78500	79482	0.566	2.080	5481.	4.521	365.4	0.979 + 4	3.737	28.964
79000	79994	0.564	1.914	5422.	4.161	363.4	0.950	4.060	28.964
79500	80507	0.563	1.761	5425.	3.786	361.4	0.842	4.463	28.964
80000	81020	0.561	1.584 - 4	5424.	3.446 +20	363.4	7.408 + 4	4.906 - 3	28.964
80500	81533	0.560	1.441	5424.	3.133	363.4	6.759	5.392	28.964
81000	82046	0.558	1.310	5425.	2.851	363.4	6.151	5.927	28.964
81500	82559	0.557	1.192	5426.	2.593	363.4	5.578	6.515	28.964
82000	83072	0.555	1.084	5427.	2.359	363.4	5.075	7.161	28.964
82500	83585	0.554	0.982 - 5	5428.	2.147	363.4	4.617	7.871	28.964
83000	84098	0.552	0.971	5429.	1.953	363.4	4.200	8.651	28.964
83500	84612	0.551	0.861	5430.	1.777	363.4	3.821	9.509	28.964
84000	85125	0.549	7.423	5430.	1.614	363.4	3.477	1.045 - 2	28.964
84500	85639	0.548	6.752	5431.	1.471	363.4	3.165	1.149	28.964
85000	86152	0.546	6.142 - 5	5432.	1.338 +20	363.4	2.878 + 4	1.263 - 2	28.964
85500	86666	0.545	5.587	5433.	1.217	363.4	2.618	1.388	28.964
86000	87180	0.543	5.082	5434.	1.107	363.4	2.382	1.524	28.964
86500	87693	0.542	4.623	5435.	1.007	363.4	2.167	1.677	28.964
87000	88207	0.540	4.205	5436.	9.165 +19	363.4	1.971	1.843	28.964
87500	88721	0.538	3.825	5437.	8.338	363.4	1.793	2.026	28.964
88000	89236	0.537	3.479	5437.	7.584	363.4	1.632	2.227	28.964
88500	89750	0.535	3.165	5438.	6.902	363.4	1.484	2.448	28.964
89000	90264	0.534	2.867	5443.	6.252	363.4	1.348	2.702	28.964
89500	90778	0.532	2.588	5510.	5.645	363.4	1.222	2.993	28.964
90000	91293	0.531	2.336 - 5	5558.	5.101 +19	367.3	1.109 + 4	3.312 - 2	28.96

TABLE II—Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{v}, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
40000	59639	9.6261	2.9447 - 5	7629.8	8.3610 +21	432.39	1.4700 + 6	2.6580 - 4	28.964
40500	59930	9.6224	2.7473	7600.7	8.3797	431.58	1.5275	2.6254	28.964
41000	60220	9.6211	2.6004	7572.6	8.3999	430.73	1.5328	3.0062	28.964
41500	60511	9.6194	2.4630	7544.5	8.4206	429.90	1.5337	3.1994	28.964
42000	61801	9.6181	2.3017	7492.5	8.4760	428.58	1.2617	3.3952	28.964
42500	61891	9.6164	2.1692	7435.1	8.4903	426.70	1.1846	3.6021	28.964
43000	62382	9.6151	2.0534	7377.7	8.4989	425.02	1.1117	3.8233	28.964
43500	62872	9.6134	1.9239	7320.3	8.4612	423.33	1.0427	4.0600	28.964
44000	63362	9.6121	1.8106	7262.9	8.4160	421.63	9.7769 + 5	4.3136	28.964
44500	63852	9.6104	1.7032	7205.5	8.3687	419.93	9.1501	4.5848	28.964
45000									
45500	64342	9.6091	1.6013 - 5	7148.1	8.3451 +21	418.22	8.5776 + 5	4.8757 - 4	28.964
46000	64832	9.6074	1.5048	7090.6	8.3267	416.51	8.0288	5.1874	28.964
46500	65322	9.6061	1.4134	7033.2	8.3094	414.78	7.5111	5.5223	28.964
47000	65811	9.6044	1.3269	6975.7	8.2725	413.05	7.0229	5.8815	28.964
47500	66301	9.6031	1.2450	6918.4	8.2494	411.32	6.5628	6.2674	28.964
48000	66791	9.6014	1.1673	6860.8	8.2283	409.57	6.1294	6.6821	28.964
48500	67280	9.6001	1.0943	6803.3	8.2101	407.82	5.7213	7.1261	28.964
49000	67770	9.5984	1.0251	6745.9	8.2204	406.06	5.3372	7.6001	28.964
49500	68259	9.5971	9.5974 - 4	6688.4	8.2079	404.30	4.9760	8.1299	28.964
50000	68748	9.5954	9.6004	6630.8	8.1940	402.52	4.6364	8.6810	28.964
50500									
51000	69237	9.5941	8.3983 - 4	6573.3	8.1801 +21	400.74	4.3174 + 5	9.2621 - 4	28.964
51500	69727	9.5927	7.8492	6515.8	8.1704	399.95	4.0177	9.9299	28.964
52000	70214	9.5912	7.3317	6458.3	8.1585	397.16	3.7365	1.0629 - 5	28.964
52500	70705	9.5897	6.8441	6400.7	8.1480	395.35	3.4727	1.1365	28.964
53000	71193	9.5882	6.3850	6343.2	8.1367	393.54	3.2254	1.2201	28.964
53500	71682	9.5867	5.9529	6285.4	8.1212	391.72	2.9937	1.3095	28.964
54000	72171	9.5852	5.5465	6228.1	8.1202	389.89	2.7767	1.4041	28.964
54500	72660	9.5837	5.1645	6170.5	8.1205	388.06	2.5737	1.5078	28.964
55000	73148	9.5822	4.8055	6112.9	8.1042	386.21	2.3838	1.6202	28.964
55500	73637	9.5807	4.4685	6055.3	8.0980 +20	384.36	2.2043	1.7421	28.964
56000									
56500	74125	9.579	4.152 - 4	5998.	8.0913 +20	382.5	2.041 + 5	1.874 - 5	28.964
57000	74614	9.576	3.854	5940.	8.0770	380.6	1.884	2.018	28.964
57500	75102	9.574	3.578	5882.	8.0740	378.7	1.741	2.175	28.964
58000	75590	9.575	3.317	5825.	8.0704	376.9	1.607	2.345	28.964
58500	76078	9.573	3.073	5767.	8.0675	375.0	1.482	2.531	28.964
59000	76566	9.572	2.845	5710.	8.181	373.0	1.365	2.733	28.964
59500	77054	9.570	2.632	5652.	8.1719	371.1	1.254	2.954	28.964
60000	77542	9.569	2.433	5594.	8.1687	369.2	1.155	3.195	28.964
60500	78030	9.567	2.247	5537.	8.1684	367.3	1.062	3.459	28.964
61000	78518	9.566	2.074	5479.	8.1608	365.3	9.747 + 4	3.748	28.964
61500									
62000	79006	9.564	1.912 - 4	5422.	8.1557 +20	363.4	8.940 + 4	4.065 - 5	28.964
62500	79493	9.563	1.763	5363.	8.1590	361.4	8.153	4.457	28.964
63000	79981	9.561	1.589	5303.	8.1557	359.4	7.435	4.886	28.964
63500	80468	9.560	1.449	5244.	8.152	357.4	6.780	5.360	28.964
64000	80956	9.558	1.321	5185.	8.1475	355.4	6.183	5.877	28.964
64500	81443	9.557	1.205	5126.	8.1422	353.4	5.639	6.445	28.964
65000	81930	9.555	1.099	5067.	8.1391	351.4	5.142	7.067	28.964
65500	82417	9.554	1.002	5008.	8.1360	349.4	4.690	7.740	28.964
66000	82904	9.552	9.135 - 5	5049.	8.1389	347.4	4.277	8.494	28.964
66500	83391	9.551	8.130	5090.	8.1414	345.4	3.901	9.316	28.964
67000									
67500	83878	9.550	7.594 - 5	5030.	8.1454 +20	343.4	3.538 + 4	1.021 - 2	28.964
68000	84365	9.548	6.927	5071.	8.1509	341.4	3.245	1.120	28.964
68500	84852	9.547	6.317	5012.	8.1574	339.4	2.959	1.228	28.964
69000	85339	9.545	5.741	5053.	8.1555	337.4	2.699	1.344	28.964
69500	85825	9.544	5.233	5094.	8.1545	335.4	2.462	1.474	28.964
70000	86312	9.542	4.791	5035.	8.1544	333.4	2.245	1.618	28.964
70500	86798	9.541	4.349	5076.	8.1522 +19	331.4	2.048	1.774	28.964
71000	87285	9.539	3.906	5017.	8.1485	329.4	1.868	1.945	28.964
71500	87771	9.538	3.434	5058.	8.1422	327.4	1.704	2.133	28.964
72000	88257	9.536	3.314	5099.	8.1426	325.4	1.554	2.330	28.964
72500									
73000	88743	9.535	3.022 - 5	5039.	8.1591 +19	323.4	1.418 + 4	2.543 - 2	28.96

TABLE II.—Continued

GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, \text{m/sec}^2$	Specific weight $\gamma, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, \text{m/sec}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
90500	93763	9.535	3.022 - 5	5639.	6.591 +19	363.4	1.418 + 4	2.563 - 2	28.96
90500	89229	9.533	2.735	5685.	5.955	366.9	1.708	2.032	28.96
91000	89715	9.532	2.477	5531.	5.403	366.4	1.172	3.127	28.96
91500	90201	9.530	2.245	5577.	4.844	367.9	1.067	3.469	28.96
92000	90687	9.529	2.034	5623.	4.344	369.4	9.714 + 3	3.802	28.96
92500	91173	9.527	1.849	5669.	4.035	370.9	8.856	4.187	28.96
93000	91659	9.526	1.679	5715.	3.461	372.9	8.081	4.607	28.96
93500	92144	9.524	1.527	5761.	3.335	373.8	7.375	5.065	28.96
94000	92630	9.523	1.389	5807.	3.033	375.3	6.742	5.566	28.95
94500	93116	9.521	1.265	5853.	2.769	376.7	6.144	6.111	28.95
95000	93601	9.520	1.153	5899.	2.520 +19	378.2	5.640 + 3	6.705 - 2	28.94
95500	94086	9.518	1.051	5944.	2.298	379.6	5.165	7.350	28.94
96000	94572	9.517	9.394 - 6	5992.	2.099	381.1	4.732	8.052	28.94
96500	95057	9.515	8.741	6038.	1.917	382.5	4.339	8.815	28.93
97000	95542	9.514	8.006	6084.	1.752	383.9	3.982	9.643	28.92
97500	96027	9.513	7.321	6130.	1.603	385.4	3.654	1.054 - 1	28.92
98000	96512	9.511	6.689	6177.	1.467	386.8	3.359	1.151	28.91
98500	96997	9.510	6.134	6223.	1.343	388.2	3.088	1.257	28.90
99000	97482	9.508	5.620	6269.	1.232	389.6	2.841	1.371	28.90
99500	97966	9.507	5.153	6315.	1.130	391.0	2.615	1.495	28.89
100000	98451	9.505	4.728 - 6	6362.	1.037 +19	392.4	2.409 + 3	1.629 - 1	28.88
101000	98936	9.502	4.352	6413.	9.681 +18	393.0	2.240	1.946	28.86
102000	100429	9.499	3.918	6468.	7.295	401.6	1.734	2.314	28.83
103000	101337	9.496	3.794	6511.	6.154	406.1	1.480	2.746	28.81
104000	102326	9.493	3.366	6574.	5.215	410.6	1.267	3.240	28.78
105000	103294	9.490	3.009	7128.	4.654	415.0	1.089	3.610	28.75
106000	104241	9.488	1.712	7201.	3.784	419.4	9.393 + 2	4.465	28.72
107000	105228	9.485	1.463	7335.	3.240	423.7	8.126	5.215	28.68
108000	106195	9.482	1.255	7589.	2.783	428.0	7.051	6.071	28.64
109000	107162	9.479	1.080	7742.	2.398	432.3	6.136	7.045	28.60
110000	108129	9.476	9.314 - 7	7894.	2.073 +18	436.5	5.356 + 2	8.150 - 1	28.56
111000	109095	9.473	7.919	8201.	1.766	444.8	4.649	9.568	28.51
112000	110060	9.470	6.773	8507.	1.513	452.9	4.057	1.117 + 0	28.47
113000	111026	9.467	5.825	8813.	1.304	460.9	3.557	1.296	28.42
114000	111991	9.464	5.036	9119.	1.129	468.8	3.134	1.496	28.37
115000	112956	9.461	4.374	9425.	9.830 +17	476.5	2.773	1.719	28.32
116000	113921	9.458	3.814	9732.	8.594	484.1	2.465	1.966	28.27
117000	114885	9.455	3.344	10038.	7.346	491.6	2.194	2.239	28.22
118000	115849	9.452	2.941	10345.	6.452	499.0	1.965	2.540	28.17
119000	116813	9.449	2.597	10652.	5.884	506.3	1.784	2.870	28.12
120000	117776	9.447	2.301 - 7	10959.	5.226 +17	513.4	1.588 + 2	3.233 + 0	28.07
121000	118739	9.444	1.994	11270.	4.539	527.5	1.417	3.722	28.02
122000	119702	9.441	1.741	12182.	3.972	541.2	1.272	4.254	27.97
123000	120665	9.438	1.530	12794.	3.404	554.5	1.148	4.830	27.91
124000	121627	9.435	1.353	13407.	3.100	567.5	1.041	5.451	27.86
125000	122589	9.432	1.203	14019.	2.741	580.3	9.484 + 1	6.118	27.81
126000	123551	9.429	1.075	14633.	2.472	592.7	8.674	6.833	27.74
127000	124512	9.426	9.447 - 8	15246.	2.224	604.9	7.943	7.597	27.72
128000	125473	9.423	8.694	15860.	2.009	616.9	7.334	8.411	27.67
129000	126436	9.420	7.849	16474.	1.821	628.7	6.777	9.276	27.62
130000	127399	9.417	7.147 - 8	17084.	1.657 +17	640.2	6.260 + 1	1.019 + 1	27.58
131000	128364	9.415	6.514	17704.	1.513	651.5	5.836	1.219	27.53
132000	129314	9.412	5.955	18320.	1.384	662.6	5.436	1.414	27.49
133000	130274	9.409	5.440	18936.	1.273	673.4	5.074	1.627	27.45
134000	131233	9.406	5.020	19552.	1.173	684.3	4.750	1.841	27.41
135000	132192	9.403	4.628	20168.	1.083	694.9	4.454	1.560	27.37
136000	133151	9.400	4.274	20785.	1.002	705.4	4.185	1.406	27.33
137000	134109	9.397	3.941	21403.	9.299 +16	715.7	3.939	1.817	27.30
138000	135067	9.394	3.676	22020.	8.645	725.8	3.714	1.954	27.26
139000	136025	9.391	3.419	22638.	8.053	735.8	3.507	2.098	27.23
140000	136983	9.388	84 - 8	23257.	7.516 +16	745.7	3.317 + 1	2.247 + 1	27.20
141000	137940	9.386	775	23874.	7.027	755.4	3.142	2.404	27.17
142000	138897	9.383	2.782	24495.	6.581	765.0	2.980	2.567	27.13
143000	139853	9.380	2.606	25115.	6.174	774.5	2.830	2.737	27.11
144000	140810	9.377	2.445	25735.	5.801	783.9	2.691	2.913	27.08
145000	141764	9.374	2.298	26355.	5.458	793.2	2.562	3.095	27.05
146000	142721	9.371	2.162	26976.	5.141	802.3	2.442	3.285	27.02
147000	143677	9.368	2.034	27597.	4.852	811.4	2.330	3.482	27.00
148000	144632	9.365	1.923	28218.	4.584	820.3	2.224	3.685	26.97
149000	145587	9.362	1.814	28840.	4.336	829.2	2.128	3.896	26.94
150000	146541	9.360	1.713 - 8	29462.	4.107 +16	838.0	2.037 + 1	4.114 + 1	26.92
151000	147496	9.357	1.635	29932.	3.813	846.3	1.956	4.317	26.89
152000	148450	9.354	1.557	30401.	3.732	851.0	1.880	4.521	26.87
153000	149403	9.351	1.484	30871.	3.562	857.4	1.807	4.743	26.84
154000	150357	9.348	1.414	31341.	3.402	863.8	1.739	4.967	26.82
155000	151310	9.345	1.351	31812.	3.251	870.1	1.674	5.197	26.79
156000	152263	9.342	1.291	32282.	3.107	876.4	1.613	5.434	26.77
157000	153215	9.339	1.234	32753.	2.975	882.6	1.554	5.678	26.74
158000	154167	9.337	1.180	33224.	2.849	888.8	1.497	5.930	26.71
159000	155119	9.334	1.129	33696.	2.730	894.9	1.446	6.188	26.69

TABLE II.—Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, \text{m sec}^{-2}$	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{v}, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
160000	156071	9.331	1.081 - 8	34160.	2.618 +16	901.0	1.396 + 1	6.454 + 1	26.66
161000	157022	9.328	1.080	34406.	2.523	905.1	1.351	6.697	26.63
162000	157973	9.325	1.002	34606.	2.432	909.1	1.308	6.948	26.60
163000	158924	9.322	9.664 - 9	35123.	2.345	913.1	1.267	7.205	26.58
164000	159874	9.319	9.292	35642.	2.262	917.1	1.228	7.470	26.55
165000	160825	9.317	8.951	35761.	2.182	921.1	1.190	7.741	26.52
166000	161775	9.314	8.631	36080.	2.107	925.0	1.153	8.020	26.49
167000	162724	9.311	8.327	36399.	2.034	929.0	1.118	8.307	26.47
168000	163673	9.308	8.022	36719.	1.966	932.9	1.085	8.601	26.44
169000	164622	9.305	7.745	37039.	1.897	936.8	1.052	8.904	26.42
170000	165571	9.302	7.475 - 9	37358.	1.830 +16	940.7	1.019 + 1	9.233 + 1	26.45
171000	166520	9.299	7.234	37586.	1.773	943.4	9.903 + 0	9.527	26.42
172000	167468	9.297	7.002	37814.	1.719	946.1	9.627	9.824	26.39
173000	168416	9.294	6.779	38041.	1.667	948.8	9.361	1.014 + 2	26.36
174000	169363	9.291	6.565	38269.	1.616	951.3	9.103	1.045	26.33
175000	170310	9.288	6.358	38497.	1.568	954.2	8.854	1.078	26.30
176000	171257	9.285	6.159	38724.	1.521	956.9	8.614	1.111	26.27
177000	172204	9.282	5.967	38952.	1.476	959.6	8.381	1.145	26.24
178000	173150	9.280	5.782	39180.	1.432	962.2	8.156	1.180	26.21
179000	174097	9.277	5.604	39411.	1.390	964.9	7.938	1.216	26.18
180000	175042	9.274	5.433 - 9	39640.	1.349 +16	967.5	7.727 + 0	1.252 + 2	26.15
181000	175988	9.271	5.268	39869.	1.310	970.2	7.526	1.290	26.12
182000	176933	9.268	5.108	40098.	1.272	972.8	7.326	1.328	26.09
183000	177878	9.265	4.954	40327.	1.235	975.4	7.135	1.367	26.06
184000	178823	9.263	4.806	40556.	1.201	978.1	6.950	1.407	26.03
185000	179767	9.260	4.663	40784.	1.166	980.7	6.771	1.448	26.00
186000	180711	9.257	4.525	41015.	1.133	983.3	6.597	1.490	25.97
187000	181655	9.254	4.392	41243.	1.102	985.9	6.429	1.533	25.94
188000	182598	9.251	4.263	41475.	1.071	988.5	6.268	1.577	25.91
189000	183542	9.248	4.139	41706.	1.041	991.0	6.109	1.622	25.88
190000	184485	9.246	4.019 - 9	41935.	1.013 +16	993.6	5.955 + 0	1.668 + 2	25.85
191000	185427	9.243	3.909	42163.	9.885 +15	995.5	5.811	1.713	25.82
192000	186370	9.240	3.802	42391.	9.807	997.3	5.671	1.759	25.79
193000	187312	9.237	3.698	42619.	9.739	999.1	5.535	1.805	25.76
194000	188253	9.234	3.598	42848.	9.671	1001.0	5.403	1.853	25.73
195000	189195	9.231	3.501	42774.	8.886	1002.8	5.274	1.901	25.70
196000	190136	9.229	3.407	42995.	8.659	1004.6	5.149	1.951	25.68
197000	191077	9.226	3.316	43113.	8.439	1006.4	5.027	2.002	25.65
198000	192018	9.223	3.227	43282.	8.226	1008.2	4.909	2.054	25.62
199000	192958	9.220	3.141	43451.	8.019	1010.0	4.794	2.107	25.59
200000	193898	9.217	3.058 - 9	43620.	7.818 +15	1011.8	4.682 + 0	2.161 + 2	25.56
201000	194838	9.215	2.977	43799.	7.622	1013.7	4.573	2.216	25.53
202000	195777	9.212	2.899	43958.	7.433	1015.5	4.467	2.273	25.50
203000	196716	9.209	2.823	44127.	7.248	1017.3	4.364	2.331	25.47
204000	197655	9.206	2.749	44297.	7.069	1019.0	4.264	2.390	25.44
205000	198594	9.203	2.678	44466.	6.896	1020.8	4.167	2.450	25.41
206000	199532	9.200	2.608	44636.	6.727	1022.6	4.072	2.512	25.38
207000	200470	9.198	2.541	44806.	6.562	1024.4	3.979	2.574	25.35
208000	201408	9.195	2.474	44975.	6.403	1026.2	3.889	2.639	25.32
209000	202346	9.192	2.412	45145.	6.248	1028.0	3.802	2.704	25.30
210000	203283	9.189	2.351 - 9	45315.	6.097 +15	1029.8	3.716 + 0	2.771 + 2	25.27
211000	204220	9.186	2.291	45485.	5.951	1031.5	3.633	2.839	25.24
212000	205156	9.184	2.233	45655.	5.808	1033.3	3.552	2.909	25.21
213000	206093	9.181	2.176	45824.	5.670	1035.1	3.474	2.980	25.18
214000	207029	9.178	2.122	45994.	5.535	1036.8	3.397	3.052	25.15
215000	207964	9.175	2.068	46164.	5.404	1038.6	3.322	3.126	25.12
216000	208900	9.173	2.017	46337.	5.277	1040.3	3.247	3.202	25.09
217000	209835	9.170	1.967	46507.	5.153	1042.1	3.179	3.279	25.06
218000	210770	9.167	1.918	46678.	5.033	1043.9	3.109	3.357	25.04
219000	211705	9.164	1.870	46849.	4.915	1045.6	3.042	3.437	25.01
220000	212639	9.161	1.824 - 9	47020.	4.801 +15	1047.3	2.976 + 0	3.519 + 2	24.98
221000	213573	9.159	1.779	47191.	4.690	1049.1	2.912	3.602	24.95
222000	214507	9.156	1.736	47362.	4.582	1050.8	2.850	3.687	24.92
223000	215440	9.153	1.694	47533.	4.477	1052.6	2.789	3.774	24.89
224000	216374	9.150	1.652	47705.	4.375	1054.3	2.730	3.862	24.86
225000	217308	9.147	1.612	47876.	4.275	1056.0	2.672	3.952	24.83
226000	218239	9.145	1.573	48048.	4.178	1057.8	2.616	4.044	24.80
227000	219171	9.142	1.536	48219.	4.083	1059.5	2.561	4.137	24.77
228000	220104	9.139	1.499	48391.	3.991	1061.2	2.507	4.233	24.75
229000	221035	9.136	1.463	48563.	3.902	1062.9	2.455	4.330	24.72
230000	221967	9.134	1.428 - 9	48735.	3.815 +15	1064.7	2.404 + 0	4.429 + 2	24.69
231000	222898	9.131	1.395	48905.	3.732	1066.0	2.355	4.527	24.66
232000	223829	9.128	1.363	49076.	3.651	1067.4	2.307	4.627	24.63
233000	224760	9.125	1.332	49246.	3.573	1068.8	2.260	4.729	24.60
234000	225690	9.122	1.301	49417.	3.496	1070.1	2.215	4.832	24.57
235000	226620	9.120	1.272	49588.	3.421	1071.5	2.170	4.938	24.54
236000	227550	9.117	1.243	49759.	3.348	1072.9	2.126	5.046	24.51
237000	228479	9.114	1.216	49929.	3.277	1074.2	2.084	5.155	24.49
238000	229409	9.111	1.187	50099.	3.208	1075.6	2.042	5.267	24.46
239000	230338	9.109	1.160	50269.	3.140	1076.9	2.002	5.381	24.43

TABLE II.—Continued

GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity g, msec^{-2}	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{V}, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M	
Z, m	H, m									
240000	231244	9.104	1.11	9	50144.	3.074 +15	1078.3	1.942 + 0	5.494 + 2	24.40
241000	232195	9.103	1.109		50285.	3.009	1079.7	1.923	5.614	24.37
242000	233123	9.100	1.084		50424.	2.946	1081.0	1.885	5.735	24.34
243000	234031	9.098	1.057		50568.	2.885	1082.4	1.848	5.857	24.31
244000	234918	9.095	1.034		50709.	2.824	1083.7	1.812	5.982	24.28
245000	235805	9.092	1.013		50851.	2.755	1085.1	1.776	6.108	24.25
246000	236682	9.089	9.902	-10	50993.	2.709	1086.4	1.742	6.236	24.22
247000	237559	9.087	9.883		51135.	2.653	1087.7	1.708	6.369	24.20
248000	238436	9.084	9.870		51277.	2.598	1089.1	1.675	6.503	24.17
249000	239312	9.081	9.262		51419.	2.545	1090.4	1.642	6.639	24.14
250000	240188	9.078	9.050	-10	51561.	2.493 +15	1091.8	1.611 + 0	6.778 + 2	24.11
251000	241063	9.074	8.860		51703.	2.442	1093.1	1.580	6.919	24.08
252000	242109	9.073	8.667		51845.	2.392	1094.4	1.550	7.063	24.05
253000	243114	9.070	8.478		51987.	2.346	1095.8	1.520	7.209	24.02
254000	244238	9.067	8.294		52130.	2.296	1097.1	1.491	7.358	23.99
255000	245143	9.065	8.113		52272.	2.250	1098.4	1.463	7.505	23.96
256000	246087	9.062	7.940		52415.	2.205	1099.8	1.435	7.663	23.93
257000	247011	9.059	7.769		52557.	2.160	1101.1	1.408	7.820	23.91
258000	247936	9.056	7.602		52700.	2.117	1102.4	1.382	7.980	23.88
259000	248858	9.054	7.439		52843.	2.075	1103.8	1.356	8.142	23.85
260000	249781	9.051	7.280	-10	52986.	2.034 +15	1105.1	1.330 + 0	8.307 + 2	23.82
261000	250704	9.048	7.125		53128.	1.993	1106.4	1.305	8.475	23.79
262000	251626	9.045	6.973		53271.	1.954	1107.7	1.281	8.646	23.76
263000	252546	9.043	6.824		53415.	1.916	1109.0	1.257	8.820	23.73
264000	253470	9.040	6.681		53558.	1.878	1110.4	1.234	8.994	23.70
265000	254392	9.037	6.540		53701.	1.841	1111.7	1.211	9.176	23.67
266000	255313	9.034	6.403		53844.	1.805	1113.0	1.188	9.359	23.64
267000	256235	9.032	6.268		53988.	1.770	1114.3	1.167	9.545	23.62
268000	257155	9.029	6.137		54131.	1.736	1115.6	1.146	9.734	23.59
269000	258076	9.026	6.009		54275.	1.702	1116.9	1.125	9.927	23.56
270000	258996	9.024	5.884	-10	54418.	1.669 +15	1118.2	1.105 + 0	1.012 + 3	23.53
271000	259914	9.021	5.762		54562.	1.637	1119.5	1.085	1.032	23.50
272000	260836	9.018	5.642		54706.	1.605	1120.8	1.065	1.052	23.47
273000	261755	9.015	5.524		54850.	1.575	1122.1	1.046	1.073	23.44
274000	262675	9.013	5.412		54994.	1.545	1123.4	1.027	1.094	23.41
275000	263596	9.010	5.301		55138.	1.515	1124.7	1.009	1.115	23.38
276000	264512	9.007	5.192		55282.	1.486	1126.0	9.907 - 1	1.137	23.35
277000	265430	9.004	5.086		55426.	1.458	1127.3	9.731	1.159	23.33
278000	266349	9.002	4.982		55570.	1.431	1128.6	9.558	1.181	23.30
279000	267266	8.999	4.880		55715.	1.404	1129.9	9.389	1.204	23.27
280000	268186	8.996	4.781	-10	55859.	1.377 +15	1131.2	9.223 - 1	1.227 + 3	23.24
281000	269101	8.994	4.684		56004.	1.352	1132.5	9.060	1.250	23.21
282000	270018	8.991	4.590		56148.	1.326	1133.8	8.901	1.274	23.18
283000	270935	8.988	4.497		56293.	1.302	1135.1	8.745	1.298	23.15
284000	271851	8.986	4.407		56438.	1.277	1136.4	8.593	1.323	23.12
285000	272767	8.983	4.318		56583.	1.254	1137.7	8.443	1.347	23.09
286000	273683	8.980	4.232		56727.	1.231	1139.0	8.294	1.373	23.06
287000	274599	8.977	4.146		56872.	1.208	1140.3	8.153	1.399	23.03
288000	275516	8.975	4.065		57016.	1.186	1141.5	8.012	1.425	23.01
289000	276429	8.972	3.984		57163.	1.164	1142.8	7.874	1.451	22.99
290000	277344	8.969	3.905	-10	57308.	1.143 +15	1144.1	7.738 - 1	1.478 + 3	22.95
291000	278258	8.967	3.828		57453.	1.122	1145.4	7.606	1.506	22.92
292000	279172	8.964	3.753		57599.	1.102	1146.6	7.476	1.534	22.89
293000	280086	8.961	3.679		57744.	1.082	1147.9	7.349	1.562	22.86
294000	281000	8.958	3.607		57890.	1.062	1149.2	7.224	1.591	22.83
295000	281913	8.956	3.536		58035.	1.043	1150.5	7.101	1.620	22.80
296000	282824	8.953	3.467		58181.	1.024	1151.7	6.981	1.650	22.77
297000	283739	8.950	3.400		58327.	1.006	1153.0	6.864	1.680	22.75
298000	284650	8.948	3.334		58473.	9.877 +14	1154.3	6.748	1.710	22.72
299000	285564	8.945	3.269		58619.	9.701	1155.5	6.635	1.742	22.69
300000	286474	8.942	3.206	-10	58765.	9.528 +14	1156.8	6.524 - 1	1.773 + 3	22.66
301000	287389	8.937	3.084		59012.	9.201	1158.9	6.311	1.836	22.60
302000	290121	8.932	2.971		59260.	8.884	1161.0	6.106	1.901	22.54
303000	291942	8.926	2.860		59507.	8.583	1163.0	5.908	1.968	22.49
304000	293762	8.921	2.754		59755.	8.291	1165.1	5.718	2.036	22.43
310000	295581	8.916	2.653		60004.	8.011	1167.2	5.534	2.109	22.37
312000	297399	8.910	2.556		60253.	7.741	1169.2	5.358	2.182	22.31
314000	299215	8.905	2.462		60501.	7.482	1171.3	5.187	2.258	22.26
316000	301031	8.899	2.372		60751.	7.232	1173.4	5.023	2.334	22.20
316000	302845	8.894	2.286		61000.	6.992	1175.4	4.865	2.416	22.14
320000	304659	8.889	2.204	-10	61250.	6.761 +14	1177.5	4.712 - 1	2.499 + 3	22.08
322000	306471	8.883	2.124		61500.	6.538	1179.5	4.565	2.584	22.03
324000	308282	8.878	2.048		61750.	6.324	1181.5	4.423	2.671	21.97
326000	310092	8.873	1.975		62000.	6.110	1183.6	4.286	2.762	21.91
328000	311901	8.868	1.905		62251.	5.919	1185.6	4.154	2.854	21.86
330000	313709	8.862	1.837		62502.	5.727	1187.7	4.026	2.950	21.80
332000	315516	8.857	1.772		62754.	5.543	1189.7	3.903	3.048	21.74
334000	317322	8.852	1.710		63005.	5.365	1191.7	3.784	3.149	21.69
336000	319127	8.846	1.650		63257.	5.193	1193.7	3.670	3.253	21.63
338000	320930	8.841	1.593		63509.	5.028	1195.8	3.559	3.360	21.58

TABLE II.—Continued

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity $g, m/sec^2$	Specific weight $\omega, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M				
Z, m	H, m												
340000	322733	0.856	1.537	-10	43762.	4.869	+14	1197.8	1.452	-1	4.470	+3	21.92
342000	324534	0.850	1.484		44014.	4.715		1199.8	1.348		3.583		21.46
344000	326335	0.825	1.433		44267.	4.567		1201.8	1.249		3.499		21.41
346000	328134	0.820	1.383		44521.	4.424		1203.8	1.152		3.419		21.35
348000	329932	0.815	1.334		44774.	4.284		1205.8	1.059		3.342		21.30
350700	331729	0.799	1.290		45028.	4.153		1207.8	2.969		4.068		21.28
352000	333525	0.804	1.247		45282.	4.035		1209.8	2.882		4.175		21.17
354000	335320	0.799	1.204		45536.	3.901		1211.8	2.798		4.331		21.13
356000	337114	0.794	1.164		45791.	3.781		1213.8	2.714		4.468		21.08
358000	338907	0.788	1.125		46045.	3.665		1215.8	2.638		4.609		21.03
360000	340699	0.783	1.087	-10	46300.	3.554	+14	1217.7	2.562	-1	4.754	+3	20.97
362000	342492	0.778	1.051		46556.	3.446		1219.7	2.488		4.903		20.92
364000	344279	0.773	1.014		46811.	3.342		1221.7	2.417		5.055		20.88
366000	346066	0.768	9.820	-11	47067.	3.242		1223.7	2.348		5.212		20.81
368000	347854	0.762	9.496		47324.	3.144		1225.6	2.281		5.373		20.76
370000	349642	0.757	9.183		47580.	3.051		1227.6	2.217		5.538		20.70
372000	351427	0.752	8.882		47837.	2.960		1229.6	2.154		5.708		20.65
374000	353212	0.747	8.592		48094.	2.872		1231.5	2.094		5.882		20.60
376000	354995	0.741	8.313		48351.	2.787		1233.5	2.035		6.061		20.55
378000	356777	0.736	8.043		48608.	2.706		1235.4	1.978		6.245		20.49
380000	358559	0.731	7.783	-11	48866.	2.626	+14	1237.4	1.924	-1	6.433	+3	20.44
382000	360339	0.726	7.533		49124.	2.550		1239.3	1.870		6.626		20.39
384000	362118	0.721	7.291		49382.	2.476		1241.3	1.819		6.825		20.34
386000	363894	0.714	7.058		49641.	2.404		1243.2	1.769		7.028		20.29
388000	365673	0.710	6.833		49900.	2.335		1245.2	1.721		7.237		20.24
390000	367449	0.705	6.614		50159.	2.267		1247.1	1.674		7.451		20.19
392000	369223	0.700	6.407		50418.	2.202		1249.0	1.628		7.671		20.14
394000	370997	0.695	6.205		50678.	2.140		1251.0	1.584		7.894		20.09
396000	372770	0.690	6.010		50938.	2.079		1252.9	1.542		8.127		20.04
398000	374542	0.685	5.822		51198.	2.020		1254.8	1.500		8.364		19.99
400000	376312	0.679	5.640	-11	51459.	1.963	+14	1256.7	1.460	-1	8.607	+3	19.94
402000	378082	0.674	5.468		51717.	1.909		1258.6	1.422		8.851		19.89
404000	379850	0.669	5.302		51976.	1.854		1259.8	1.384		9.101		19.84
406000	381618	0.664	5.142		52235.	1.804		1261.5	1.348		9.357		19.79
408000	383384	0.659	4.986		52494.	1.754		1262.8	1.313		9.619		19.75
410000	385150	0.654	4.836		52753.	1.709		1264.5	1.279		9.888		19.70
412000	386914	0.649	4.691		53012.	1.662		1265.8	1.245		1.014	+4	19.65
414000	388677	0.644	4.550		53271.	1.617		1267.5	1.213		1.045		19.60
416000	390440	0.638	4.414		53530.	1.574		1268.8	1.182		1.074		19.56
418000	392201	0.633	4.283		53789.	1.531		1270.5	1.151		1.103		19.51
420000	393961	0.628	4.156	-11	54048.	1.490	+14	1271.8	1.122	-1	1.134	+4	19.47
422000	395720	0.623	4.033		54307.	1.450		1273.3	1.093		1.165		19.42
424000	397478	0.618	3.913		54566.	1.411		1274.8	1.065		1.197		19.38
426000	399235	0.613	3.798		54825.	1.374		1276.2	1.038		1.230		19.33
428000	400991	0.608	3.687		55084.	1.337		1277.7	1.011		1.263		19.29
430000	402746	0.603	3.579		55343.	1.302		1279.2	9.858	-2	1.298		19.24
432000	404500	0.598	3.474		55602.	1.268		1280.7	9.609		1.333		19.20
434000	406255	0.593	3.373		55861.	1.234		1282.2	9.364		1.369		19.16
436000	408009	0.588	3.275		56120.	1.202		1283.7	9.131		1.406		19.11
438000	409754	0.583	3.180		56379.	1.170		1285.1	8.901		1.444		19.07
440000	411506	0.577	3.088	-11	56638.	1.140	+14	1286.6	8.678	-2	1.483	+4	19.03
442000	413255	0.572	2.999		56897.	1.110		1288.1	8.462		1.522		18.99
444000	415002	0.567	2.913		57156.	1.081		1289.6	8.251		1.563		18.94
446000	416749	0.562	2.830		57415.	1.053		1291.0	8.044		1.605		18.90
448000	418495	0.557	2.749		57674.	1.026		1292.5	7.844		1.647		18.86
450000	420240	0.552	2.670		57933.	9.991	+13	1294.0	7.652		1.691		18.82
452000	421983	0.547	2.594		58192.	9.733		1295.5	7.463		1.736		18.78
454000	423726	0.542	2.521		58451.	9.483		1296.9	7.280		1.782		18.74
456000	425467	0.537	2.450		58710.	9.240		1298.4	7.101		1.828		18.70
458000	427208	0.532	2.381		58969.	9.003		1299.8	6.927		1.876		18.66
460000	428948	0.527	2.314	-11	59228.	8.773	+13	1301.3	6.758	-2	1.924	+4	18.63
462000	430688	0.522	2.249		59487.	8.550		1302.8	6.593		1.974		18.59
464000	432424	0.517	2.184		59746.	8.333		1304.2	6.433		2.022		18.55
466000	434160	0.512	2.125		60005.	8.121		1305.7	6.276		2.070		18.51
468000	435896	0.507	2.066		60264.	7.914		1307.1	6.124		2.119		18.48
470000	437630	0.502	2.009		60523.	7.716		1308.6	5.974		2.170		18.44
472000	439364	0.497	1.953		60782.	7.522		1310.0	5.832		2.224		18.40
474000	441094	0.492	1.899		61041.	7.333		1311.5	5.692		2.280		18.37
476000	442828	0.487	1.847		61300.	7.149		1312.9	5.554		2.338		18.33
478000	444558	0.482	1.796		61559.	6.970		1314.4	5.423		2.398		18.30
480000	446287	0.477	1.747	-11	61818.	6.794	+13	1315.8	5.293	-2	2.460	+4	18.26
482000	448016	0.472	1.699		62077.	6.627		1317.3	5.167		2.519		18.23
484000	449743	0.467	1.653		62336.	6.462		1318.7	5.044		2.579		18.19
486000	451469	0.462	1.608		62595.	6.302		1320.2	4.924		2.641		18.16
488000	453195	0.457	1.565		62854.	6.144		1321.6	4.808		2.704		18.13
490000	454919	0.453	1.522		63113.	5.994		1323.0	4.694		2.769		18.10
492000	456642	0.448	1.481		63372.	5.844		1324.5	4.583		2.830		18.06
494000	458365	0.443	1.441		63631.	5.703		1325.9	4.475		2.893		18.03
496000	460088	0.438	1.403		63890.	5.563		1327.3	4.370		2.957		18.00
498000	461806	0.433	1.365		64149.	5.426		1328.8	4.268		3.013		17.97

TABLE II.—Continued

GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel. due to gravity $g, m/sec^2$	Specific weight $w, kg/m^3 sec^2$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $V, m/sec$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
500000	463524	0.420	1.329 -11	02447.	5.296 +13	1330.2	0.140 - 2	5.191 + 4	17.94
502000	463244	0.421	1.295	02611.	5.149	1331.1	0.072	5.269	17.91
504000	462961	0.418	1.261	02775.	5.006	1332.1	3.979	3.348	17.88
506000	462678	0.413	1.229	02940.	4.927	1333.0	3.068	3.029	17.85
508000	470393	0.404	1.197	03104.	4.811	1333.9	3.799	3.512	17.82
510000	472107	0.403	1.164	03269.	4.699	1334.9	3.712	3.566	17.79
512000	473821	0.391	1.134	03434.	4.587	1335.8	3.627	3.683	17.76
514000	475533	0.394	1.107	03598.	4.460	1336.7	3.544	3.771	17.74
516000	477244	0.389	1.079	03764.	4.375	1337.7	3.464	3.862	17.71
518000	478954	0.384	1.051	03929.	4.272	1338.6	3.385	3.955	17.68
520000	480664	0.379	1.025 -11	04094.	4.172 +13	1339.5	3.308 - 2	4.049 + 4	17.65
522000	482372	0.374	0.997 -12	04260.	4.075	1340.4	3.233	4.146	17.63
524000	484079	0.369	0.970	04425.	3.980	1341.4	3.160	4.245	17.60
526000	485786	0.364	0.943	04591.	3.887	1342.3	3.088	4.347	17.58
528000	487491	0.359	0.918	04757.	3.796	1343.2	3.018	4.450	17.55
530000	489195	0.355	0.893	04923.	3.708	1344.1	2.950	4.556	17.52
532000	490899	0.350	0.868	05089.	3.622	1345.1	2.884	4.664	17.50
534000	492603	0.345	0.843	05254.	3.538	1346.0	2.819	4.775	17.48
536000	494303	0.340	0.818	05420.	3.456	1346.9	2.755	4.888	17.45
538000	496003	0.335	0.793	05585.	3.376	1347.8	2.693	5.004	17.43
540000	497702	0.330	7.940 -12	05750.	5.298 +13	1348.8	2.633 - 2	5.122 + 4	17.40
542000	499401	0.325	7.742	05915.	3.222	1349.7	2.574	5.245	17.38
544000	501099	0.321	7.549	06080.	3.148	1350.6	2.516	5.367	17.36
546000	502795	0.316	7.362	06245.	3.075	1351.5	2.460	5.493	17.34
548000	504490	0.311	7.179	06410.	3.003	1352.4	2.405	5.623	17.31
550000	506185	0.306	7.002	06575.	2.936	1353.3	2.352	5.755	17.29
552000	507878	0.301	6.829	06741.	2.868	1354.3	2.299	5.890	17.27
554000	509571	0.297	6.660	06906.	2.803	1355.2	2.248	6.028	17.25
556000	511262	0.292	6.497	07071.	2.739	1356.1	2.198	6.169	17.23
558000	512953	0.287	6.337	07236.	2.676	1357.0	2.150	6.313	17.21
560000	514642	0.282	6.182 -12	07401.	2.615 +13	1357.9	2.102 - 2	6.460 + 4	17.19
562000	516331	0.277	6.030	07566.	2.556	1358.9	2.055	6.611	17.17
564000	518018	0.273	5.883	07730.	2.497	1359.8	2.010	6.765	17.15
566000	519705	0.268	5.740	07895.	2.441	1360.7	1.966	6.922	17.13
568000	521391	0.263	5.600	08060.	2.385	1361.6	1.922	7.083	17.11
570000	523075	0.258	5.464	08225.	2.331	1362.5	1.880	7.247	17.09
572000	524759	0.253	5.331	08390.	2.278	1363.4	1.839	7.415	17.07
574000	526442	0.249	5.202	08554.	2.227	1364.3	1.798	7.586	17.06
576000	528124	0.244	5.077	08719.	2.177	1365.2	1.759	7.761	17.04
578000	529805	0.239	4.954	08884.	2.128	1366.1	1.721	7.940	17.02
580000	531484	0.234	4.835 -12	09049.	2.080 +13	1367.1	1.683 - 2	8.123 + 4	17.00
582000	533163	0.230	4.719	09214.	2.033	1368.0	1.646	8.310	16.98
584000	534841	0.225	4.605	09379.	1.987	1368.9	1.610	8.501	16.97
586000	536518	0.220	4.495	09544.	1.943	1369.8	1.575	8.694	16.95
588000	538194	0.215	4.388	09709.	1.899	1370.7	1.541	8.895	16.93
590000	539869	0.211	4.283	09874.	1.857	1371.6	1.508	9.098	16.92
592000	541543	0.206	4.181	10039.	1.816	1372.5	1.475	9.306	16.90
594000	543216	0.201	4.082	10204.	1.775	1373.4	1.443	9.518	16.89
596000	544888	0.196	3.985	10369.	1.736	1374.3	1.412	9.734	16.87
598000	546559	0.192	3.890	10534.	1.697	1375.2	1.381	9.959	16.85
600000	548230	0.187	3.798 -12	10699.	1.659 +13	1376.1	1.352 - 2	1.018 + 5	16.84
602000	549909	0.182	3.710	10864.	1.623	1377.0	1.323	1.041	16.82
604000	551587	0.178	3.625	11029.	1.588	1377.9	1.295	1.064	16.81
606000	553264	0.173	3.541	11194.	1.554	1378.8	1.267	1.087	16.79
608000	554941	0.168	3.459	11359.	1.520	1379.7	1.240	1.111	16.78
610000	556618	0.164	3.380	11524.	1.487	1380.6	1.214	1.136	16.76
612000	558295	0.159	3.302	11689.	1.455	1381.5	1.188	1.161	16.75
614000	559972	0.154	3.226	11854.	1.424	1382.4	1.163	1.187	16.74
616000	561649	0.149	3.152	12019.	1.393	1383.3	1.139	1.213	16.72
618000	563326	0.145	3.080	12184.	1.363	1384.2	1.115	1.239	16.71
620000	565003	0.140	3.009 -12	12349.	1.334 +13	1385.1	1.091 - 2	1.267 + 5	16.69
622000	566680	0.135	2.941	12514.	1.305	1386.0	1.068	1.294	16.68
624000	568357	0.131	2.874	12679.	1.277	1386.9	1.046	1.323	16.67
626000	569999	0.126	2.808	12844.	1.250	1387.8	1.024	1.352	16.65
628000	571641	0.121	2.744	13009.	1.223	1388.7	1.002	1.381	16.64
630000	573283	0.117	2.682	13174.	1.197	1389.6	0.981 - 3	1.412	16.63
632000	574925	0.112	2.621	13339.	1.171	1390.5	0.960	1.442	16.61
634000	576567	0.108	2.562	13504.	1.146	1391.4	0.940	1.474	16.60
636000	578209	0.103	2.506	13669.	1.122	1392.3	0.920	1.506	16.59
638000	579851	0.099	2.447	13834.	1.098	1393.2	0.904	1.539	16.57
640000	581493	0.094	2.392 -12	13999.	1.075 +13	1394.1	0.888 - 3	1.572 + 5	16.56
642000	583135	0.089	2.338	14164.	1.052	1395.0	0.865	1.606	16.55
644000	584777	0.084	2.285	14329.	1.030	1395.9	0.843	1.641	16.53
646000	586419	0.080	2.234	14494.	1.008	1396.8	0.820	1.676	16.52
648000	588061	0.075	2.184	14659.	0.986	1397.7	0.811	1.712	16.51
650000	589703	0.070	2.135	14824.	0.965	1398.6	0.790	1.749	16.50
652000	591345	0.066	2.087	14989.	0.945	1399.5	0.778	1.787	16.48
654000	592987	0.061	2.040	15154.	0.926	1400.4	0.765	1.825	16.47
656000	594629	0.057	1.995	15319.	0.906	1401.3	0.748	1.865	16.46
658000	596271	0.052	1.950	15484.	0.887	1402.2	0.734	1.904	16.44

TABLE II.—Concluded

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GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Accel due to gravity g, msec^{-2}	Specific weight $\omega, \text{kg m}^{-3} \text{sec}^{-2}$	Pressure scale height H_p, m	Number density n, m^{-3}	Particle speed $\bar{V}, \text{m sec}^{-1}$	Collision frequency ν, sec^{-1}	Mean free path L, m	Molecular weight M
Z, m	H, m								
660000	597892	8.087	1.907 -12	94762.	8.685 +12	1393.5	7.164 - 3	1.945 + 5	16.43
662000	599532	8.083	1.865	94895.	8.504	1394.1	7.017	1.987	16.42
664000	601172	8.058	1.823	95028.	8.324	1394.7	6.873	2.029	16.41
666000	602811	8.034	1.781	95161.	8.152	1395.3	6.733	2.072	16.39
668000	604449	8.029	1.743	95294.	7.982	1395.8	6.595	2.114	16.38
670000	606086	8.025	1.705	95427.	7.816	1396.4	6.461	2.161	16.37
672000	607722	8.020	1.667	95560.	7.654	1397.0	6.329	2.207	16.35
674000	609357	8.015	1.630	95693.	7.495	1397.6	6.200	2.254	16.34
676000	610991	8.011	1.594	95826.	7.340	1398.1	6.075	2.302	16.33
678000	612625	8.006	1.559	95960.	7.189	1398.7	5.951	2.350	16.32
680000	614257	8.002	1.525	96093.	7.040	1399.3	5.831	2.400	16.30
682000	615889	7.997	1.492	96227.	6.895	1399.9	5.713	2.450	16.29
684000	617519	7.993	1.459	96361.	6.753	1400.4	5.598	2.502	16.28
686000	619149	7.988	1.427	96495.	6.615	1401.0	5.485	2.554	16.24
688000	620777	7.984	1.395	96629.	6.479	1401.6	5.375	2.608	16.25
690000	622405	7.977	1.365	96763.	6.347	1402.2	5.267	2.662	16.24
692000	624032	7.974	1.335	96897.	6.217	1402.7	5.162	2.718	16.22
694000	625658	7.970	1.306	97031.	6.090	1403.3	5.058	2.774	16.21
696000	627285	7.965	1.278	97166.	5.966	1403.9	4.956	2.832	16.20
698000	628907	7.961	1.250	97300.	5.845	1404.5	4.859	2.891	16.18
700000	630530	7.956	1.223	97435.	5.724	1405.0	4.762	2.950	16.17

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Table III
SOUND SPEED, COEFFICIENT OF VISCOSITY, KINEMATIC VISCOSITY, AND
THERMAL CONDUCTIVITY

Metric Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE III
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
-5000	-4996	339.972	1.9421 - 5	1.08134 + 0	1.0000 - 5	6.86727 - 1	6.6540 - 6	1.00920 + 0
-4950	-4946	350.700	1.9406	1.08053	1.0000	6.91175	6.6481	1.00931
-4900	-4896	350.600	1.9391	1.08370	1.0132	6.93635	6.6422	1.00935
-4850	-4846	350.526	1.9371	1.08266	1.0168	6.96106	6.6362	1.00935
-4800	-4796	350.346	1.9342	1.08203	1.0204	6.98580	6.6303	1.00937
-4750	-4746	350.061	1.9317	1.08120	1.0241	7.01051	6.6244	1.00939
-4700	-4697	357.879	1.9332	1.08036	1.0277	7.03526	6.6185	1.00932
-4650	-4647	357.696	1.9317	1.07953	1.0314	7.06002	6.6126	1.00926
-4600	-4597	357.516	1.9302	1.07869	1.0351	7.08479	6.6066	1.00918
-4550	-4547	357.331	1.9287	1.07786	1.0388	7.10956	6.6007	1.00908
-4500	-4497	357.148	1.9272	1.07702 + 0	1.0425 - 5	7.13431 - 1	6.5948 - 6	1.00895 + 0
-4450	-4447	356.965	1.9257	1.07619	1.0463	7.15900	6.5888	1.00882
-4400	-4397	356.782	1.9242	1.07535	1.0500	7.18369	6.5829	1.00875
-4350	-4347	356.599	1.9227	1.07451	1.0538	7.20839	6.5770	1.00865
-4300	-4297	356.416	1.9212	1.07367	1.0576	7.23308	6.5710	1.00857
-4250	-4247	356.233	1.9197	1.07284	1.0614	7.25778	6.5651	1.00849
-4200	-4197	356.049	1.9182	1.07200	1.0651	7.28247	6.5591	1.00841
-4150	-4147	355.866	1.9167	1.07116	1.0689	7.30717	6.5532	1.00832
-4100	-4097	355.682	1.9152	1.07032	1.0726	7.33186	6.5472	1.00824
-4050	-4047	355.499	1.9137	1.06948	1.0764	7.35656	6.5413	1.00816
-4000	-3997	355.315	1.9122	1.06864 + 0	1.0807 - 5	7.38125 - 1	6.5353 - 6	1.00798 + 0
-3950	-3946	355.131	1.9107	1.06780	1.0845	7.40595	6.5294	1.00780
-3900	-3896	354.947	1.9092	1.06696	1.0884	7.43065	6.5234	1.00771
-3850	-3846	354.763	1.9077	1.06612	1.0922	7.45535	6.5175	1.00763
-3800	-3796	354.579	1.9062	1.06528	1.0960	7.48005	6.5115	1.00754
-3750	-3746	354.395	1.9047	1.06443	1.1005	7.50475	6.5055	1.00746
-3700	-3696	354.210	1.9032	1.06359	1.1045	7.52945	6.4994	1.00737
-3650	-3646	354.026	1.9017	1.06275	1.1086	7.55415	6.4934	1.00729
-3600	-3596	353.841	1.9002	1.06190	1.1126	7.57885	6.4877	1.00720
-3550	-3546	353.657	1.8986	1.06106	1.1167	7.60355	6.4817	1.00708
-3500	-3496	353.472	1.8971	1.06022 + 0	1.1207 - 5	7.62825 - 1	6.4757 - 6	1.00693 + 0
-3450	-3446	353.287	1.8956	1.05937	1.1249	7.65295	6.4697	1.00684
-3400	-3396	353.102	1.8941	1.05853	1.1290	7.67765	6.4638	1.00676
-3350	-3346	352.917	1.8926	1.05768	1.1331	7.70235	6.4578	1.00667
-3300	-3296	352.732	1.8911	1.05683	1.1373	7.72705	6.4518	1.00658
-3250	-3246	352.547	1.8896	1.05599	1.1415	7.75175	6.4458	1.00649
-3200	-3196	352.362	1.8880	1.05514	1.1457	7.77645	6.4399	1.00641
-3150	-3146	352.177	1.8865	1.05429	1.1499	7.80115	6.4339	1.00632
-3100	-3096	351.991	1.8850	1.05345	1.1541	7.82585	6.4279	1.00624
-3050	-3046	351.805	1.8835	1.05260	1.1584	7.85055	6.4219	1.00616
-3000	-2999	351.620	1.8820	1.05175 + 0	1.1626 - 5	7.87525 - 1	6.4159 - 6	1.00595 + 0
-2950	-2946	351.434	1.8805	1.05090	1.1669	7.90000	6.4099	1.00586
-2900	-2896	351.248	1.8789	1.05005	1.1713	7.92475	6.4039	1.00577
-2850	-2846	351.062	1.8774	1.04920	1.1756	7.94950	6.3979	1.00568
-2800	-2796	350.876	1.8759	1.04835	1.1800	7.97425	6.3919	1.00559
-2750	-2746	350.690	1.8744	1.04750	1.1843	7.99900	6.3859	1.00550
-2700	-2696	350.504	1.8728	1.04665	1.1887	8.02375	6.3799	1.00541
-2650	-2646	350.317	1.8713	1.04580	1.1932	8.04850	6.3739	1.00531
-2600	-2599	350.131	1.8698	1.04494	1.1976	8.07325	6.3679	1.00522
-2550	-2546	349.946	1.8683	1.04409	1.2021	8.09800	6.3619	1.00513
-2500	-2499	349.758	1.8667	1.04324 + 0	1.2066 - 5	8.12275 - 1	6.3559 - 6	1.00494 + 0
-2450	-2446	349.571	1.8652	1.04238	1.2111	8.14750	6.3499	1.00485
-2400	-2396	349.384	1.8637	1.04153	1.2156	8.17225	6.3439	1.00476
-2350	-2346	349.197	1.8622	1.04068	1.2201	8.19700	6.3379	1.00467
-2300	-2296	349.010	1.8606	1.03982	1.2247	8.22175	6.3319	1.00458
-2250	-2246	348.823	1.8591	1.03897	1.2293	8.24650	6.3259	1.00449
-2200	-2196	348.636	1.8576	1.03811	1.2339	8.27125	6.3199	1.00440
-2150	-2146	348.448	1.8560	1.03725	1.2386	8.29600	6.3139	1.00431
-2100	-2099	348.261	1.8545	1.03640	1.2432	8.32075	6.3079	1.00422
-2050	-2046	348.073	1.8530	1.03554	1.2479	8.34550	6.3018	1.00413
-2000	-1999	347.885	1.8514	1.03468 + 0	1.2526 - 5	8.37025 - 1	6.2957 - 6	1.00394 + 0
-1950	-1946	347.698	1.8499	1.03382	1.2573	8.39500	6.2897	1.00385
-1900	-1896	347.510	1.8484	1.03296	1.2621	8.41975	6.2837	1.00376
-1850	-1846	347.322	1.8468	1.03211	1.2668	8.44450	6.2777	1.00367
-1800	-1796	347.134	1.8453	1.03125	1.2716	8.46925	6.2716	1.00358
-1750	-1746	346.946	1.8438	1.03039	1.2765	8.49400	6.2656	1.00349
-1700	-1696	346.757	1.8422	1.02953	1.2813	8.51875	6.2595	1.00340
-1650	-1646	346.569	1.8407	1.02867	1.2862	8.54350	6.2535	1.00331
-1600	-1596	346.380	1.8391	1.02780	1.2910	8.56825	6.2474	1.00322
-1550	-1546	346.192	1.8376	1.02694	1.2960	8.59300	6.2414	1.00312
-1500	-1499	346.003	1.8360	1.02608 + 0	1.3009 - 5	8.61775 - 1	6.2353 - 6	1.00293 + 0
-1450	-1446	345.816	1.8345	1.02522	1.3059	8.64250	6.2293	1.00284
-1400	-1396	345.628	1.8330	1.02435	1.3108	8.66725	6.2232	1.00275
-1350	-1346	345.437	1.8314	1.02349	1.3158	8.69200	6.2172	1.00266
-1300	-1296	345.247	1.8299	1.02263	1.3209	8.71675	6.2111	1.00257
-1250	-1246	345.058	1.8283	1.02176	1.3259	8.74150	6.2051	1.00248
-1200	-1196	344.869	1.8268	1.02090	1.3310	8.76625	6.1990	1.00239
-1150	-1146	344.680	1.8252	1.02003	1.3361	8.79100	6.1930	1.00230
-1100	-1096	344.490	1.8237	1.01917	1.3412	8.81575	6.1869	1.00221
-1050	-1046	344.300	1.8221	1.01830	1.3464	8.84050	6.1808	1.00211

TABLE III
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C_s m sec ⁻¹	μ kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
-5000	-5000	350.984	1.9422 - 5	1.08543 + 0	1.0050 - 5	0.00000 - 1	0.0545 - 6	1.00934 + 0
-4950	-4950	350.804	1.9407	1.08459	1.0093	0.00000	0.0545	1.00785
-4900	-4900	350.622	1.9392	1.08374	1.0139	0.00000	0.0545	1.00740
-4850	-4850	350.439	1.9376	1.08293	1.0185	0.00000	0.0545	1.00692
-4800	-4800	350.257	1.9361	1.08209	1.0232	0.00000	0.0545	1.00644
-4750	-4750	350.074	1.9345	1.08124	1.0278	0.00000	0.0545	1.00596
-4700	-4700	350.091	1.9330	1.08042	1.0325	0.00000	0.0545	1.00548
-4650	-4650	350.109	1.9314	1.07958	1.0371	0.00000	0.0545	1.00500
-4600	-4600	350.126	1.9299	1.07875	1.0418	0.00000	0.0545	1.00452
-4550	-4550	350.143	1.9283	1.07791	1.0464	0.00000	0.0545	1.00404
-4500	-4500	350.160	1.9267 - 5	1.07706 + 0	1.0510 - 5	0.00000 - 1	0.0545 - 6	1.00356 + 0
-4450	-4450	350.977	1.9252	1.07624	1.0556	0.00000	0.0545	1.00308
-4400	-4400	350.795	1.9236	1.07540	1.0602	0.00000	0.0545	1.00260
-4350	-4350	350.610	1.9220	1.07456	1.0648	0.00000	0.0545	1.00212
-4300	-4300	350.427	1.9204	1.07372	1.0694	0.00000	0.0545	1.00164
-4250	-4250	350.245	1.9188	1.07288	1.0740	0.00000	0.0545	1.00116
-4200	-4200	350.059	1.9173	1.07204	1.0786	0.00000	0.0545	1.00068
-4150	-4150	350.076	1.9157	1.07120	1.0832	0.00000	0.0545	1.00020
-4100	-4100	350.092	1.9142	1.07036	1.0878	0.00000	0.0545	0.99972
-4050	-4050	350.109	1.9126	1.06952	1.0924	0.00000	0.0545	0.99924
-4000	-4000	350.126	1.9110 - 5	1.06868 + 0	1.0970 - 5	0.00000 - 1	0.0545 - 6	0.99876 + 0
-3950	-3950	350.143	1.9094	1.06784	1.1016	0.00000	0.0545	0.99828
-3900	-3900	350.958	1.9078	1.06700	1.1062	0.00000	0.0545	0.99780
-3850	-3850	350.772	1.9062	1.06616	1.1108	0.00000	0.0545	0.99732
-3800	-3800	350.587	1.9046	1.06531	1.1154	0.00000	0.0545	0.99684
-3750	-3750	350.403	1.9030	1.06447	1.1200	0.00000	0.0545	0.99636
-3700	-3700	350.218	1.9014	1.06363	1.1246	0.00000	0.0545	0.99588
-3650	-3650	350.034	1.9000	1.06278	1.1292	0.00000	0.0545	0.99540
-3600	-3600	350.049	1.8984	1.06194	1.1338	0.00000	0.0545	0.99492
-3550	-3550	350.064	1.8968	1.06109	1.1384	0.00000	0.0545	0.99444
-3500	-3500	350.079	1.8952 - 5	1.06025 + 0	1.1430 - 5	0.00000 - 1	0.0545 - 6	0.99396 + 0
-3450	-3450	350.094	1.8936	1.05940	1.1476	0.00000	0.0545	0.99348
-3400	-3400	350.109	1.8920	1.05856	1.1522	0.00000	0.0545	0.99300
-3350	-3350	350.924	1.8904	1.05771	1.1568	0.00000	0.0545	0.99252
-3300	-3300	350.739	1.8888	1.05686	1.1614	0.00000	0.0545	0.99204
-3250	-3250	350.553	1.8872	1.05602	1.1660	0.00000	0.0545	0.99156
-3200	-3200	350.368	1.8856	1.05517	1.1706	0.00000	0.0545	0.99108
-3150	-3150	350.182	1.8840	1.05432	1.1752	0.00000	0.0545	0.99060
-3100	-3100	350.000	1.8824	1.05347	1.1798	0.00000	0.0545	0.99012
-3050	-3050	350.011	1.8808	1.05262	1.1844	0.00000	0.0545	0.98964
-3000	-3000	350.025	1.8792 - 5	1.05177 + 0	1.1890 - 5	0.00000 - 1	0.0545 - 6	0.98916 + 0
-2950	-2950	350.040	1.8776	1.05092	1.1936	0.00000	0.0545	0.98868
-2900	-2900	350.053	1.8760	1.05007	1.1982	0.00000	0.0545	0.98820
-2850	-2850	350.067	1.8744	1.04922	1.2028	0.00000	0.0545	0.98772
-2800	-2800	350.081	1.8728	1.04837	1.2074	0.00000	0.0545	0.98724
-2750	-2750	350.094	1.8712	1.04752	1.2120	0.00000	0.0545	0.98676
-2700	-2700	350.108	1.8696	1.04667	1.2166	0.00000	0.0545	0.98628
-2650	-2650	350.121	1.8680	1.04581	1.2212	0.00000	0.0545	0.98580
-2600	-2600	350.135	1.8664	1.04496	1.2258	0.00000	0.0545	0.98532
-2550	-2550	350.148	1.8648	1.04411	1.2304	0.00000	0.0545	0.98484
-2500	-2500	350.161	1.8632 - 5	1.04325 + 0	1.2350 - 5	0.00000 - 1	0.0545 - 6	0.98436 + 0
-2450	-2450	350.174	1.8616	1.04240	1.2396	0.00000	0.0545	0.98388
-2400	-2400	350.187	1.8600	1.04155	1.2442	0.00000	0.0545	0.98340
-2350	-2350	350.200	1.8584	1.04069	1.2488	0.00000	0.0545	0.98292
-2300	-2300	350.013	1.8568	1.03983	1.2534	0.00000	0.0545	0.98244
-2250	-2250	350.026	1.8552	1.03898	1.2580	0.00000	0.0545	0.98196
-2200	-2200	350.039	1.8536	1.03812	1.2626	0.00000	0.0545	0.98148
-2150	-2150	350.051	1.8520	1.03727	1.2672	0.00000	0.0545	0.98100
-2100	-2100	350.063	1.8504	1.03641	1.2718	0.00000	0.0545	0.98052
-2050	-2050	350.076	1.8488	1.03555	1.2764	0.00000	0.0545	0.98004
-2000	-2000	350.088	1.8472 - 5	1.03469 + 0	1.2810 - 5	0.00000 - 1	0.0545 - 6	0.97956 + 0
-1950	-1950	350.100	1.8456	1.03383	1.2856	0.00000	0.0545	0.97908
-1900	-1900	350.112	1.8440	1.03297	1.2902	0.00000	0.0545	0.97860
-1850	-1850	350.124	1.8424	1.03212	1.2948	0.00000	0.0545	0.97812
-1800	-1800	350.136	1.8408	1.03126	1.2994	0.00000	0.0545	0.97764
-1750	-1750	350.148	1.8392	1.03040	1.3040	0.00000	0.0545	0.97716
-1700	-1700	350.160	1.8376	1.02955	1.3086	0.00000	0.0545	0.97668
-1650	-1650	350.171	1.8360	1.02869	1.3132	0.00000	0.0545	0.97620
-1600	-1600	350.182	1.8344	1.02783	1.3178	0.00000	0.0545	0.97572
-1550	-1550	350.193	1.8328	1.02697	1.3224	0.00000	0.0545	0.97524
-1500	-1500	350.205	1.8312 - 5	1.02609 + 0	1.3270 - 5	0.00000 - 1	0.0545 - 6	0.97476 + 0
-1450	-1450	350.216	1.8296	1.02522	1.3316	0.00000	0.0545	0.97428
-1400	-1400	350.227	1.8280	1.02436	1.3362	0.00000	0.0545	0.97380
-1350	-1350	350.238	1.8264	1.02350	1.3408	0.00000	0.0545	0.97332
-1300	-1300	350.249	1.8248	1.02263	1.3454	0.00000	0.0545	0.97284
-1250	-1250	350.259	1.8232	1.02177	1.3500	0.00000	0.0545	0.97236
-1200	-1200	350.268	1.8216	1.02090	1.3546	0.00000	0.0545	0.97188
-1150	-1150	350.278	1.8200	1.02004	1.3592	0.00000	0.0545	0.97140
-1100	-1100	350.287	1.8184	1.01917	1.3638	0.00000	0.0545	0.97092
-1050	-1050	350.296	1.8168	1.01830	1.3684	0.00000	0.0545	0.97044

TABLE III - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, k cal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
-1000	-1000	345.111	1.01004 - 5	1.01763 + 0	1.2516 - 5	0.25280 - 1	0.1760 - 6	1.02011 + 0
-950	-950	345.071	1.01000	1.01657	1.25080	0.25268	0.17607	1.01911
-900	-900	345.031	1.01000	1.01570	1.25020	0.25249	0.17626	1.01811
-850	-850	345.041	1.01000	1.01483	1.24973	0.25229	0.17666	1.01710
-800	-800	345.051	1.01000	1.01396	1.24926	0.25209	0.17705	1.01610
-750	-750	345.060	1.01000	1.01309	1.24879	0.25189	0.17744	1.01510
-700	-700	345.070	1.01000	1.01222	1.24832	0.25169	0.17783	1.01410
-650	-650	345.079	1.00997	1.01135	1.24785	0.25149	0.17822	1.01310
-600	-600	345.089	1.00993	1.01048	1.24738	0.25129	0.17861	1.01210
-550	-550	345.098	1.00988	1.00961	1.24691	0.25109	0.17900	1.01110
-500	-500	345.108	1.00984	1.00874 + 0	1.24644 - 5	0.25089 - 1	0.17939	1.01010 + 0
-450	-450	345.117	1.00980	1.00787	1.24597	0.25069	0.17978	1.00910
-400	-400	345.126	1.00976	1.00700	1.24550	0.25049	0.18017	1.00810
-350	-350	345.135	1.00972	1.00613	1.24503	0.25029	0.18056	1.00710
-300	-300	345.144	1.00968	1.00526	1.24456	0.25009	0.18095	1.00610
-250	-250	345.153	1.00964	1.00439	1.24409	0.24989	0.18134	1.00510
-200	-200	345.162	1.00960	1.00352	1.24362	0.24969	0.18173	1.00410
-150	-150	345.171	1.00956	1.00265	1.24315	0.24949	0.18212	1.00310
-100	-100	345.180	1.00952	1.00178	1.24268	0.24929	0.18251	1.00210
-50	-50	345.189	1.00948	1.00091	1.24221	0.24909	0.18290	1.00110
0	0	346.294	1.7694 - 5	1.00000 + 0	1.6607 - 5	1.00000 + 0	0.0530 - 6	1.00000 + 0
50	50	346.102	1.7678	0.99124 - 1	1.6665	1.00393 + 0	0.0468	0.98991 - 1
100	100	339.910	1.7662	0.98246	1.6722	1.00789	0.0406	0.97982
150	150	339.718	1.7647	0.97369	1.6780	1.01186	0.0347	0.96972
200	200	339.525	1.7631	0.96491	1.6839	1.01583	0.0288	0.95963
250	250	339.333	1.7615	0.95612	1.6897	1.01980	0.0229	0.94952
300	300	339.141	1.7600	0.94733	1.6956	1.02379	0.0170	0.93942
350	350	338.948	1.7584	0.93854	1.5015	1.02775	0.0112	0.92931
400	400	338.755	1.7568	0.92975	1.5075	1.03172	0.0054	0.91920
450	450	338.562	1.7552	0.92093	1.5135	1.03568	0.0000	0.90908
500	500	338.369	1.7537 - 5	0.91213 - 1	1.5195 - 5	1.04024 + 0	0.0019 - 6	0.89896 - 1
550	550	338.176	1.7521	0.90331	1.5255	1.04421	0.0057	0.88884
600	600	337.983	1.7505	0.89449	1.5316	1.04817	0.0096	0.87872
650	650	337.790	1.7489	0.88567	1.5377	1.05213	0.0135	0.86860
700	700	337.597	1.7473	0.87684	1.5438	1.05609	0.0174	0.85848
750	750	337.403	1.7458	0.86801	1.5500	1.06011	0.0213	0.84832
800	800	337.209	1.7442	0.85917	1.5562	1.06413	0.0251	0.83818
850	850	337.016	1.7426	0.85033	1.5624	1.06819	0.0290	0.82804
900	900	336.822	1.7410	0.84148	1.5687	1.07222	0.0328	0.81790
950	950	336.628	1.7394	0.83263	1.5750	1.07625	0.0367	0.80775
1000	1000	336.434	1.7378 - 5	0.82377 - 1	1.5813 - 5	1.08025 + 0	0.0405 - 6	0.79760 - 1
1050	1050	336.240	1.7363	0.81491	1.5877	1.08429	0.0444	0.78745
1100	1100	336.045	1.7347	0.80606	1.5940	1.08832	0.0482	0.77729
1150	1150	335.851	1.7331	0.79717	1.6005	1.09236	0.0521	0.76713
1200	1200	335.657	1.7315	0.78829	1.6069	1.09640	0.0560	0.75696
1250	1250	335.462	1.7299	0.77941	1.6134	1.10045	0.0599	0.74680
1300	1300	335.267	1.7283	0.77052	1.6199	1.10449	0.0638	0.73663
1350	1350	335.072	1.7267	0.76163	1.6265	1.10853	0.0677	0.72645
1400	1400	334.877	1.7251	0.75274	1.6331	1.11257	0.0716	0.71628
1450	1450	334.682	1.7235	0.74383	1.6397	1.11662	0.0755	0.70610
1500	1500	334.487	1.7219 - 5	0.73492 - 1	1.6463 - 5	1.12068 + 0	0.0794 - 6	0.69591 - 1
1550	1550	334.292	1.7204	0.72601	1.6530	1.12474	0.0833	0.68573
1600	1600	334.096	1.7188	0.71709	1.6598	1.12879	0.0872	0.67554
1650	1650	333.901	1.7172	0.70817	1.6665	1.13284	0.0911	0.66536
1700	1700	333.705	1.7156	0.69925	1.6733	1.13689	0.0950	0.65515
1750	1750	333.510	1.7140	0.69032	1.6801	1.14092	0.0989	0.64495
1800	1800	333.314	1.7124	0.68138	1.6870	1.14497	0.1028	0.63474
1850	1850	333.118	1.7108	0.67244	1.6939	1.14901	0.1067	0.62454
1900	1900	332.922	1.7092	0.66349	1.7008	1.15306	0.1106	0.61433
1950	1950	332.725	1.7076	0.65454	1.7078	1.15711	0.1145	0.60412
2000	2000	332.529	1.7260 - 5	0.64558 - 1	1.7146 - 5	1.16116 + 0	0.1184 - 6	0.59390 - 1
2050	2050	332.333	1.7244	0.63662	1.7219	1.16521	0.1223	0.58368
2100	2100	332.136	1.7228	0.62766	1.7290	1.16926	0.1262	0.57346
2150	2150	331.939	1.7211	0.61869	1.7361	1.17331	0.1301	0.56325
2200	2200	331.743	1.7195	0.60973	1.7432	1.17736	0.1340	0.55303
2250	2250	331.546	1.7179	0.60073	1.7504	1.18141	0.1379	0.54282
2300	2300	331.349	1.7163	0.59174	1.7577	1.20329	0.1418	0.53263
2350	2350	331.152	1.7147	0.58275	1.7649	1.20734	0.1457	0.52243
2400	2400	330.954	1.7131	0.57375	1.7722	1.21137	0.1496	0.51223
2450	2450	330.757	1.7115	0.56475	1.7794	1.21540	0.1535	0.50201
2500	2500	330.559	1.7099 - 5	0.55574 - 1	1.7870 - 5	1.21945 + 0	0.1574 - 6	0.49184 - 1
2550	2550	330.362	1.7083	0.54673	1.7944	1.22350	0.1613	0.48161
2600	2600	330.164	1.7067	0.53771	1.8019	1.22755	0.1652	0.47138
2650	2650	329.966	1.7050	0.52869	1.8094	1.23160	0.1691	0.46115
2700	2700	329.768	1.7034	0.51966	1.8169	1.23565	0.1730	0.45092
2750	2750	329.570	1.7018	0.51063	1.8244	1.23970	0.1769	0.44069
2800	2800	329.372	1.7002	0.50159	1.8321	1.24375	0.1808	0.43046
2850	2850	329.174	1.6986	0.49255	1.8398	1.24780	0.1847	0.42023
2900	2900	328.975	1.6970	0.48350	1.8475	1.25185	0.1886	0.41000
2950	2950	328.777	1.6953	0.47445	1.8552	1.25590	0.1925	0.40000

TABLE III - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	$C_s, m/sec$	$\mu, kg/m^2 sec$	$\frac{\mu}{\mu_0}$	$\eta, m^2/sec$	$\frac{\eta}{\eta_0}$	$k, cal/m^2 sec ^\circ K$	$\frac{k}{k_0}$
-1000	-1000	344.111	1.8208 - 5	1.01766 + 0	1.5518 - 5	0.25273 - 1	8.1748 - 8	1.02011 + 0
-950	-950	343.921	1.8190	1.01657	1.5508	0.25039	8.1887	1.01911
-900	-900	343.731	1.8175	1.01570	1.5490	0.24820	8.1824	1.01811
-850	-850	343.541	1.8159	1.01483	1.5475	0.24620	8.1586	1.01711
-800	-800	343.351	1.8144	1.01398	1.5457	0.24437	8.1505	1.01610
-750	-750	343.161	1.8128	1.01309	1.5439	0.24272	8.1444	1.01510
-700	-700	342.970	1.8113	1.01222	1.5422	0.24125	8.1383	1.01410
-650	-650	342.780	1.8097	1.01135	1.5406	0.24056	8.1323	1.01310
-600	-600	342.589	1.8081	1.01048	1.5390	0.23985	8.1262	1.01210
-550	-550	342.399	1.8066	1.00961	1.5374	0.23912	8.1201	1.01110
-500	-500	342.208	1.8050	1.00874	1.5358	0.23747	8.1140	1.01007 + 0
-450	-450	342.017	1.8035	1.00787	1.5343	0.23581	8.1079	1.00907
-400	-400	341.826	1.8019	1.00700	1.5328	0.23423	8.1018	1.00806
-350	-350	341.635	1.8003	1.00612	1.5313	0.23264	8.0957	1.00705
-300	-300	341.443	1.7988	1.00525	1.5298	0.23108	8.0896	1.00604
-250	-250	341.252	1.7972	1.00438	1.5284	0.22952	8.0835	1.00503
-200	-200	341.061	1.7956	1.00350	1.5270	0.22796	8.0774	1.00403
-150	-150	340.869	1.7941	1.00263	1.5257	0.22641	8.0713	1.00303
-100	-100	340.678	1.7925	1.00175	1.5243	0.22485	8.0652	1.00202
-50	-50	340.486	1.7909	1.00088	1.5230	0.22330	8.0591	1.00101
0	0	340.294	1.7894	1.00000 + 0	1.5217	1.00000 + 0	8.0530	1.00000 + 0
50	50	340.102	1.7878	0.99912 - 1	1.5205	1.00093 + 0	8.0469	0.99991 - 1
100	100	339.910	1.7862	0.99824	1.5192	1.00189	8.0408	0.99982
150	150	339.718	1.7847	0.99736	1.5180	1.01186	8.0347	0.99973
200	200	339.525	1.7831	0.99649	1.5168	1.01585	8.0286	0.99964
250	250	339.333	1.7815	0.99561	1.5157	1.01986	8.0225	0.99955
300	300	339.141	1.7800	0.99473	1.5145	1.02390	8.0164	0.99946
350	350	338.948	1.7784	0.99385	1.5135	1.02795	8.0102	0.99937
400	400	338.755	1.7768	0.99297	1.5125	1.03202	8.0041	0.99928
450	450	338.562	1.7752	0.99209	1.5115	1.03612	8.0080	0.99919
500	500	338.370	1.7737	0.99121 - 1	1.5105	1.04023 + 0	8.0019	0.99910 - 1
550	550	338.177	1.7721	0.99032	1.5095	1.04437	8.0058	0.99901
600	600	337.983	1.7705	0.98945	1.5085	1.04852	8.0097	0.99892
650	650	337.790	1.7689	0.98858	1.5075	1.05270	8.0136	0.99883
700	700	337.597	1.7673	0.98770	1.5065	1.05690	8.0175	0.99874
750	750	337.403	1.7658	0.98682	1.5055	1.06112	8.0214	0.99865
800	800	337.210	1.7642	0.98594	1.5045	1.06536	8.0253	0.99856
850	850	337.016	1.7626	0.98505	1.5035	1.06962	8.0292	0.99847
900	900	336.822	1.7610	0.98415	1.5025	1.07390	8.0331	0.99838
950	950	336.629	1.7594	0.98326	1.5015	1.07821	8.0370	0.99829
1000	1000	336.435	1.7579	0.98238 - 1	1.5005	1.08254 + 0	8.0409	0.99820 - 1
1050	1050	336.240	1.7563	0.98149	1.4995	1.08689	8.0448	0.99811
1100	1100	336.046	1.7547	0.98060	1.4985	1.09126	8.0487	0.99802
1150	1150	335.852	1.7531	0.97972	1.4975	1.09565	8.0526	0.99793
1200	1200	335.657	1.7515	0.97883	1.4965	1.10007	8.0565	0.99784
1250	1250	335.463	1.7499	0.97795	1.4955	1.10451	8.0604	0.99775
1300	1300	335.268	1.7483	0.97707	1.4945	1.10897	8.0643	0.99766
1350	1350	335.074	1.7467	0.97618	1.4935	1.11346	8.0682	0.99757
1400	1400	334.879	1.7451	0.97529	1.4925	1.11796	8.0721	0.99748
1450	1450	334.684	1.7436	0.97439	1.4915	1.12249	8.0760	0.99739
1500	1500	334.489	1.7420	0.97349 - 1	1.4905	1.12705 + 0	8.0799	0.99730 - 1
1550	1550	334.293	1.7404	0.97260	1.4895	1.13163	8.0838	0.99721
1600	1600	334.098	1.7388	0.97171	1.4885	1.13623	8.0877	0.99712
1650	1650	333.903	1.7372	0.97082	1.4875	1.14085	8.0916	0.99703
1700	1700	333.707	1.7356	0.96993	1.4865	1.14550	8.0955	0.99694
1750	1750	333.511	1.7340	0.96904	1.4855	1.15017	8.0994	0.99685
1800	1800	333.316	1.7324	0.96815	1.4845	1.15487	8.1033	0.99676
1850	1850	333.120	1.7308	0.96725	1.4835	1.15959	8.1072	0.99667
1900	1900	332.924	1.7292	0.96636	1.4825	1.16434	8.1111	0.99658
1950	1950	332.728	1.7276	0.96546	1.4815	1.16911	8.1150	0.99649
2000	1999	332.532	1.7260	0.96457 - 1	1.4805	1.17390 + 0	8.1189	0.99640 - 1
2050	2049	332.335	1.7244	0.96367	1.4795	1.17872	8.1228	0.99631
2100	2099	332.139	1.7228	0.96278	1.4785	1.18357	8.1267	0.99622
2150	2149	331.942	1.7212	0.96188	1.4775	1.18844	8.1306	0.99613
2200	2199	331.746	1.7196	0.96098	1.4765	1.19334	8.1345	0.99604
2250	2249	331.549	1.7180	0.96008	1.4755	1.19826	8.1384	0.99595
2300	2299	331.352	1.7164	0.95918	1.4745	1.20320	8.1423	0.99586
2350	2349	331.155	1.7148	0.95828	1.4735	1.20816	8.1462	0.99577
2400	2399	330.958	1.7131	0.95738	1.4725	1.21314	8.1501	0.99568
2450	2449	330.761	1.7115	0.95648	1.4715	1.21814	8.1540	0.99559
2500	2499	330.563	1.7099	0.95559 - 1	1.4705	1.22325 + 0	8.1579	0.99550 - 1
2550	2549	330.366	1.7083	0.95469	1.4695	1.22838	8.1618	0.99541
2600	2599	330.168	1.7067	0.95379	1.4685	1.23354	8.1657	0.99532
2650	2649	329.971	1.7051	0.95289	1.4675	1.23872	8.1696	0.99523
2700	2699	329.773	1.7035	0.95198	1.4665	1.24392	8.1735	0.99514
2750	2749	329.575	1.7019	0.95108	1.4655	1.24914	8.1774	0.99505
2800	2799	329.377	1.7002	0.95018	1.4645	1.25438	8.1813	0.99496
2850	2849	329.179	1.6986	0.94928	1.4635	1.25964	8.1852	0.99487
2900	2899	328.980	1.6970	0.94837	1.4625	1.26492	8.1891	0.99478
2950	2949	328.782	1.6954	0.94747	1.4615	1.27022	8.1930	0.99469

TABLE III. - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, k cal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
3000	3001	328.578	1.6937 - 5	9.46539	1.7879 - 5	1.27542 + 0	5.4631 - 6	9.38889 - 1
3050	3051	328.579	1.6921	9.4561	1.7879	1.28078	5.4769	9.37861
3100	3102	328.586	1.6905	9.4472	1.7879	1.28617	5.4707	9.36832
3150	3152	327.781	1.6889	9.438	1.7884	1.29156	5.4644	9.35803
3200	3202	327.782	1.6872	9.429	1.7894	1.29705	5.4582	9.34774
3250	3252	327.783	1.6855	9.420	1.7904	1.30254	5.4520	9.33744
3300	3302	327.783	1.6839	9.410	1.7914	1.30803	5.4457	9.32714
3350	3352	327.784	1.6823	9.4018	1.7917	1.31352	5.4395	9.31685
3400	3402	327.784	1.6807	9.3927	1.7920	1.31901	5.4333	9.30655
3450	3452	326.784	1.6791	9.3836	1.7930	1.32451	5.4270	9.29625
3500	3502	326.584	1.6775 - 5	9.37457 - 1	1.7932 - 5	1.33033 + 0	5.4208 - 6	9.28590 - 1
3550	3552	326.584	1.6759	9.36542	1.7935	1.33599	5.4145	9.27558
3600	3602	326.584	1.6742	9.35630	1.7938	1.34167	5.4083	9.26526
3650	3652	325.984	1.6726	9.34717	1.7948	1.34735	5.4020	9.25494
3700	3702	325.984	1.6709	9.33804	1.7958	1.35303	5.3958	9.24461
3750	3752	325.583	1.6693	9.32890	1.7958	1.35871	5.3895	9.23429
3800	3802	325.583	1.6677	9.31976	1.7958	1.36439	5.3833	9.22397
3850	3852	325.582	1.6660	9.31062	2.0020	1.37007	5.3770	9.21364
3900	3902	324.981	1.6644	9.30146	2.0104	1.37575	5.3708	9.20332
3950	3952	324.980	1.6627	9.29231	2.0192	1.38143	5.3645	9.19292
4000	4002	324.579	1.6611 - 5	9.28315 - 1	2.0279 - 5	1.38828 + 0	5.3582 - 6	9.18258 - 1
4050	4052	324.577	1.6595	9.27398	2.0279	1.39402	5.3520	9.17223
4100	4102	324.576	1.6578	9.26481	2.0279	1.40029	5.3457	9.16187
4150	4152	323.974	1.6562	9.25563	2.0342	1.40629	5.3394	9.15151
4200	4202	323.973	1.6545	9.24644	2.0431	1.41234	5.3332	9.14115
4250	4252	323.571	1.6529	9.23726	2.0720	1.41847	5.3269	9.13079
4300	4302	323.569	1.6513	9.22804	2.1009	1.42460	5.3206	9.12042
4350	4352	323.167	1.6496	9.21884	2.1300	1.43077	5.3143	9.11005
4400	4402	322.965	1.6480	9.20966	2.1590	1.43689	5.3081	9.09968
4450	4452	322.763	1.6463	9.20045	2.1881	1.44301	5.3018	9.08930
4500	4502	322.560	1.6447 - 5	9.19123 - 1	2.1173 - 5	1.44949 + 0	5.2955 - 6	9.07892 - 1
4550	4552	322.558	1.6430	9.18201	2.1265	1.45580	5.2892	9.06854
4600	4602	322.155	1.6414	9.17278	2.1358	1.46214	5.2829	9.05815
4650	4652	321.952	1.6397	9.16355	2.1451	1.46852	5.2766	9.04776
4700	4702	321.749	1.6381	9.15432	2.1545	1.47493	5.2703	9.03737
4750	4752	321.546	1.6364	9.14507	2.1639	1.48138	5.2640	9.02697
4800	4802	321.343	1.6347	9.13583	2.1733	1.48786	5.2578	9.01657
4850	4852	321.140	1.6331	9.12657	2.1829	1.49438	5.2515	9.00617
4900	4902	320.937	1.6314	9.11731	2.1925	1.50094	5.2452	8.99576
4950	4952	320.733	1.6298	9.10805	2.2021	1.50753	5.2389	8.98536
5000	5002	320.529	1.6281 - 5	9.09878 - 1	2.2118 - 5	1.51416 + 0	5.2326 - 6	8.97494 - 1
5050	5052	320.326	1.6265	9.08951	2.2215	1.52083	5.2263	8.96453
5100	5102	320.122	1.6248	9.08023	2.2313	1.52754	5.2199	8.95411
5150	5152	319.918	1.6231	9.07094	2.2412	1.53428	5.2136	8.94368
5200	5202	319.713	1.6215	9.06165	2.2511	1.54106	5.2073	8.93326
5250	5252	319.509	1.6198	9.05235	2.2610	1.54788	5.2010	8.92283
5300	5302	319.305	1.6181	9.04305	2.2710	1.55474	5.1947	8.91240
5350	5352	319.100	1.6165	9.03374	2.2811	1.56163	5.1884	8.90196
5400	5402	318.895	1.6148	9.02445	2.2912	1.56857	5.1821	8.89152
5450	5452	318.690	1.6131	9.01511	2.3014	1.57554	5.1757	8.88108
5500	5502	318.485	1.6115 - 5	9.00579 - 1	2.3117 - 5	1.58256 + 0	5.1694 - 6	8.87063 - 1
5550	5552	318.280	1.6098	9.99644	2.3220	1.58961	5.1631	8.86018
5600	5602	318.075	1.6081	9.98712	2.3323	1.59670	5.1568	8.84973
5650	5652	317.870	1.6065	9.97778	2.3428	1.60384	5.1504	8.83927
5700	5702	317.664	1.6048	9.96844	2.3532	1.61101	5.1441	8.82881
5750	5752	317.459	1.6031	9.95908	2.3638	1.61823	5.1378	8.81835
5800	5802	317.253	1.6014	9.94973	2.3744	1.62548	5.1314	8.80789
5850	5852	317.047	1.5998	9.94034	2.3850	1.63278	5.1251	8.79742
5900	5902	316.841	1.5981	9.93100	2.3958	1.64012	5.1188	8.78694
5950	5952	316.635	1.5964	9.92162	2.4065	1.64750	5.1124	8.77647
6000	6002	316.428	1.5947 - 5	9.91224 - 1	2.4174 - 5	1.65492 + 0	5.1061 - 6	8.76599 - 1
6050	6052	316.222	1.5931	9.90286	2.4283	1.66239	5.1007	8.75551
6100	6102	316.015	1.5914	9.89347	2.4393	1.66990	5.0943	8.74502
6150	6152	315.809	1.5897	9.88407	2.4503	1.67745	5.0879	8.73453
6200	6202	315.602	1.5880	9.87467	2.4614	1.68505	5.0815	8.72404
6250	6252	315.395	1.5863	9.86526	2.4725	1.69269	5.0752	8.71355
6300	6302	315.188	1.5846	9.85585	2.4838	1.70037	5.0688	8.70305
6350	6352	314.980	1.5830	9.84643	2.4951	1.70810	5.0624	8.69255
6400	6402	314.773	1.5813	9.83700	2.5064	1.71588	5.0560	8.68204
6450	6452	314.565	1.5796	9.82757	2.5178	1.72369	5.0496	8.67153
6500	6502	314.358	1.5779 - 5	9.81814 - 1	2.5293 - 5	1.73154 + 0	5.0432 - 6	8.66102 - 1
6550	6552	314.150	1.5762	9.80870	2.5409	1.73947	5.0368	8.65050
6600	6602	313.942	1.5745	9.79925	2.5525	1.74742	5.0304	8.63999
6650	6652	313.734	1.5728	9.78980	2.5642	1.75542	5.0240	8.62946
6700	6702	313.526	1.5711	9.78034	2.5759	1.76347	5.0176	8.61894
6750	6752	313.317	1.5694	9.77087	2.5878	1.77157	5.0112	8.60841
6800	6802	313.109	1.5677	9.76140	2.5997	1.77971	5.0048	8.59789
6850	6852	312.900	1.5661	9.75193	2.6116	1.78790	5.0019	8.58734
6900	6902	312.691	1.5644	9.74245	2.6237	1.79614	5.0019	8.57680
6950	6952	312.482	1.5627	9.73296	2.6358	1.80443	5.0052	8.56626

TABLE III. - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, k-cal m ⁻¹ sec ⁻¹ °C ⁻¹	$\frac{k}{k_0}$
3000	2999	326.583	1.6930 - 5	9.46565 - 1	1.8620 - 5	1.27327 + 0	5.6033 - 6	9.30910 - 1
3050	3049	326.585	1.6921	9.46640	1.8706	1.28062	5.6771	9.37991
3100	3098	326.586	1.6905	9.46734	1.8785	1.28800	5.6789	9.34863
3150	3148	327.587	1.6889	9.46847	1.8864	1.29141	5.6444	9.35695
3200	3198	327.588	1.6873	9.46960	1.8943	1.29485	5.6506	9.36667
3250	3248	327.589	1.6857	9.47073	1.9023	1.29832	5.6532	9.37778
3300	3298	327.590	1.6840	9.47185	1.9104	1.30182	5.6460	9.38799
3350	3348	327.591	1.6824	9.47298	1.9184	1.31335	5.6397	9.31719
3400	3398	326.591	1.6808	9.47410	1.9264	1.31601	5.6325	9.36690
3450	3448	326.592	1.6792	9.47523	1.9347	1.32450	5.6273	9.29660
3500	3498	326.592	1.6775	9.47636	1.9429	1.33011 + 0	5.6210 - 6	9.28620 - 1
3550	3548	326.592	1.6759	9.47750	1.9512	1.33576	5.6168	9.27599
3600	3598	326.592	1.6743	9.47863	1.9595	1.34144	5.6085	9.26568
3650	3648	325.592	1.6726	9.47976	1.9678	1.34715	5.6023	9.25537
3700	3698	325.592	1.6710	9.48089	1.9762	1.35289	5.5961	9.24505
3750	3748	325.592	1.6694	9.48202	1.9845	1.35864	5.5899	9.23473
3800	3798	325.591	1.6677	9.48315	1.9929	1.36440	5.5836	9.22441
3850	3848	325.591	1.6661	9.48428	2.0016	1.37029	5.5773	9.21409
3900	3898	325.590	1.6645	9.48541	2.0102	1.37616	5.5711	9.20376
3950	3948	324.590	1.6628	9.48654	2.0188	1.38206	5.5648	9.19343
4000	3997	324.589	1.6612	9.48767	2.0275	1.38798 + 0	5.5584 - 6	9.18310 - 1
4050	4047	324.589	1.6596	9.48880	2.0362	1.39395	5.5523	9.17276
4100	4097	324.587	1.6579	9.48993	2.0449	1.39994	5.5460	9.16242
4150	4147	323.585	1.6563	9.49106	2.0537	1.40597	5.5398	9.15209
4200	4197	323.584	1.6546	9.49219	2.0624	1.41203	5.5335	9.14173
4250	4247	323.582	1.6530	9.49332	2.0715	1.41812	5.5273	9.13138
4300	4297	323.581	1.6513	9.49445	2.0804	1.42424	5.5210	9.12103
4350	4347	323.579	1.6497	9.49558	2.0894	1.43040	5.5147	9.11067
4400	4397	322.577	1.6481	9.49671	2.0985	1.43660	5.5084	9.10031
4450	4447	322.575	1.6464	9.49784	2.1076	1.44283	5.5022	9.08995
4500	4497	322.573	1.6448	9.49897	2.1167	1.44909 + 0	5.4959 - 6	9.07950 - 1
4550	4547	322.571	1.6431	9.49999	2.1259	1.45538	5.4896	9.06922
4600	4597	322.569	1.6415	9.50112	2.1352	1.46171	5.4833	9.05884
4650	4647	321.566	1.6398	9.50225	2.1445	1.46808	5.4771	9.04847
4700	4697	321.564	1.6382	9.50338	2.1538	1.47448	5.4708	9.03809
4750	4746	321.561	1.6365	9.50451	2.1632	1.48092	5.4645	9.02771
4800	4796	321.558	1.6349	9.50564	2.1727	1.48739	5.4582	9.01733
4850	4846	321.555	1.6332	9.50677	2.1822	1.49390	5.4519	9.00695
4900	4896	320.552	1.6316	9.50790	2.1917	1.50044	5.4456	8.99655
4950	4946	320.549	1.6299	9.50903	2.2013	1.50702	5.4393	8.98616
5000	4994	320.545	1.6282	9.51016	2.2110	1.51364 + 0	5.4331 - 6	8.97576 - 1
5050	5044	320.542	1.6266	9.51129	2.2207	1.52030	5.4268	8.96536
5100	5094	320.538	1.6249	9.51242	2.2305	1.52699	5.4205	8.95496
5150	5144	319.535	1.6233	9.51355	2.2403	1.53372	5.4142	8.94455
5200	5194	319.531	1.6216	9.51468	2.2502	1.54048	5.4079	8.93416
5250	5244	319.527	1.6200	9.51581	2.2602	1.54729	5.4016	8.92373
5300	5294	319.523	1.6183	9.51694	2.2701	1.55413	5.3953	8.91332
5350	5344	319.518	1.6166	9.51807	2.2802	1.56101	5.3890	8.90290
5400	5394	318.514	1.6150	9.51920	2.2903	1.56793	5.3826	8.89248
5450	5444	318.510	1.6133	9.52033	2.3005	1.57489	5.3763	8.88205
5500	5493	318.505	1.6116	9.52146	2.3107	1.58189 + 0	5.3700 - 6	8.87163 - 1
5550	5543	318.500	1.6100	9.52259	2.3210	1.58892	5.3637	8.86119
5600	5593	318.495	1.6083	9.52372	2.3313	1.59600	5.3574	8.85074
5650	5643	317.490	1.6066	9.52485	2.3417	1.60312	5.3511	8.84032
5700	5693	317.485	1.6050	9.52598	2.3522	1.61028	5.3448	8.82988
5750	5743	317.480	1.6033	9.52711	2.3627	1.61747	5.3384	8.81944
5800	5793	317.475	1.6016	9.52824	2.3733	1.62471	5.3321	8.80899
5850	5843	317.469	1.6000	9.52937	2.3839	1.63199	5.3258	8.79854
5900	5893	316.463	1.5983	9.53050	2.3946	1.63931	5.3195	8.78809
5950	5943	316.458	1.5966	9.53163	2.4053	1.64668	5.3131	8.77764
6000	5994	316.452	1.5949	9.53276	2.4162	1.65408 + 0	5.3068 - 6	8.76718 - 1
6050	6044	316.446	1.5933	9.53389	2.4270	1.66153	5.3005	8.75671
6100	6094	316.439	1.5916	9.53502	2.4380	1.66902	5.2941	8.74625
6150	6144	315.433	1.5899	9.53615	2.4490	1.67655	5.2878	8.73578
6200	6194	315.427	1.5882	9.53728	2.4600	1.68413	5.2815	8.72531
6250	6244	315.420	1.5865	9.53841	2.4712	1.69175	5.2751	8.71483
6300	6294	315.413	1.5849	9.53954	2.4824	1.69941	5.2688	8.70434
6350	6344	315.407	1.5832	9.54067	2.4936	1.70712	5.2624	8.69386
6400	6394	314.400	1.5815	9.54180	2.5049	1.71487	5.2561	8.68339
6450	6443	314.393	1.5798	9.54293	2.5163	1.72267	5.2497	8.67291
6500	6493	314.385	1.5781	9.54406	2.5278	1.73051 + 0	5.2434 - 6	8.66242 - 1
6550	6543	314.378	1.5764	9.54519	2.5393	1.73840	5.2370	8.65192
6600	6593	313.370	1.5748	9.54632	2.5509	1.74633	5.2307	8.64143
6650	6643	313.363	1.5731	9.54745	2.5626	1.75431	5.2243	8.63093
6700	6693	313.355	1.5714	9.54858	2.5743	1.76233	5.2180	8.62042
6750	6743	313.347	1.5697	9.54971	2.5861	1.77040	5.2116	8.60992
6800	6793	313.339	1.5680	9.55084	2.5979	1.77852	5.2052	8.59941
6850	6843	312.331	1.5663	9.55197	2.6099	1.78669	5.1989	8.58890
6900	6893	312.323	1.5646	9.55310	2.6219	1.79490	5.1925	8.57838
6950	6942	312.314	1.5629	9.55423	2.6339	1.80316	5.1862	8.56786

TABLE III - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C_s m sec ⁻¹	μ kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	η m ² sec ⁻¹	$\frac{\eta}{\rho_0}$	k kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
7000	7000	312.278	1.5613 - 5	0.72347 - 1	2.6679 - 5	1.01276 + 0	5.1708 - 6	0.55572 - 1
7050	7050	312.064	1.5593	0.71397	2.6602	1.02115	5.1726	0.56517
7100	7100	311.851	1.5574	0.70447	2.6725	1.02954	5.1660	0.53462
7150	7150	311.645	1.5559	0.69495	2.6849	1.03804	5.1596	0.52406
7200	7200	311.434	1.5542	0.68544	2.6974	1.04640	5.1532	0.51350
7250	7250	311.220	1.5525	0.67592	2.7099	1.05510	5.1469	0.50294
7300	7300	311.010	1.5507	0.66639	2.7225	1.06382	5.1405	0.49238
7350	7350	310.804	1.5490	0.65686	2.7352	1.07250	5.1341	0.48181
7400	7400	310.596	1.5473	0.64732	2.7480	1.08124	5.1277	0.47124
7450	7450	310.386	1.5454	0.63777	2.7608	1.09003	5.1213	0.46068
7500	7500	310.175	1.5439 - 5	0.62822 - 1	2.7737 - 5	1.09887 + 0	5.1149 - 6	0.45009 - 1
7550	7550	309.965	1.5422	0.61867	2.7867	1.10777	5.1085	0.43950
7600	7600	309.754	1.5405	0.60910	2.7998	1.11672	5.1021	0.42892
7650	7650	309.543	1.5388	0.59956	2.8129	1.12572	5.0956	0.41833
7700	7700	309.332	1.5371	0.59004	2.8262	1.13477	5.0892	0.40774
7750	7750	309.121	1.5354	0.58050	2.8395	1.14388	5.0828	0.39715
7800	7800	308.909	1.5336	0.57098	2.8529	1.15305	5.0764	0.38655
7850	7850	308.699	1.5319	0.56141	2.8663	1.16224	5.0700	0.37595
7900	7900	308.486	1.5302	0.55181	2.8799	1.17154	5.0636	0.36534
7950	7950	308.274	1.5285	0.54220	2.8935	1.18087	5.0571	0.35474
8000	8000	308.063	1.5268 - 5	0.53260 - 1	2.9072 - 5	1.19026 + 0	5.0507 - 6	0.34412 - 1
8050	8050	307.850	1.5250	0.52307	2.9210	1.19970	5.0443	0.33351
8100	8100	307.635	1.5233	0.51356	2.9349	1.20920	5.0379	0.32289
8150	8150	307.426	1.5214	0.50405	2.9488	1.21876	5.0314	0.31227
8200	8200	307.215	1.5199	0.49450	2.9629	1.22837	5.0250	0.30165
8250	8250	307.001	1.5182	0.48496	2.9770	1.23805	5.0186	0.29102
8300	8300	306.788	1.5164	0.47542	2.9912	1.24778	5.0121	0.28039
8350	8350	306.575	1.5147	0.46586	3.0055	1.25758	5.0057	0.26976
8400	8400	306.362	1.5130	0.45631	3.0199	1.26743	4.9993	0.25912
8450	8450	306.149	1.5112	0.44675	3.0344	1.27734	4.9928	0.24848
8500	8500	305.935	1.5095 - 5	0.43720 - 1	3.0490 - 5	1.28731 + 0	4.9864 - 6	0.23785 - 1
8550	8550	305.722	1.5078	0.42763	3.0634	1.29735	4.9799	0.22719
8600	8600	305.508	1.5061	0.41806	3.0778	1.30744	4.9735	0.21654
8650	8650	305.294	1.5043	0.40847	3.0923	1.31760	4.9670	0.20588
8700	8700	305.080	1.5026	0.39888	3.1068	1.32782	4.9606	0.19523
8750	8750	304.864	1.5009	0.38928	3.1213	1.33810	4.9541	0.18456
8800	8800	304.652	1.4991	0.37968	3.1358	1.34845	4.9477	0.17390
8850	8850	304.437	1.4974	0.37005	3.1503	1.35884	4.9412	0.16323
8900	8900	304.223	1.4956	0.36041	3.1648	1.36933	4.9348	0.15256
8950	8950	304.008	1.4939	0.35076	3.1794	1.37987	4.9283	0.14189
9000	9000	303.793	1.4922 - 5	0.34120 - 1	3.1947 - 5	1.39047 + 0	4.9218 - 6	0.13121 - 1
9050	9050	303.578	1.4904	0.33162	3.2103	1.40114	4.9154	0.12053
9100	9100	303.363	1.4887	0.32203	3.2259	1.41182	4.9089	0.10985
9150	9150	303.148	1.4869	0.31244	3.2417	1.42260	4.9024	0.09916
9200	9200	302.932	1.4852	0.30284	3.2576	1.43345	4.8960	0.08847
9250	9250	302.717	1.4834	0.29324	3.2736	1.44439	4.8895	0.07778
9300	9300	302.501	1.4817	0.28364	3.2896	1.45549	4.8830	0.06708
9350	9350	302.285	1.4799	0.27404	3.3058	1.46665	4.8764	0.05638
9400	9400	302.069	1.4782	0.26444	3.3221	1.47787	4.8701	0.04568
9450	9450	301.852	1.4764	0.25484	3.3385	1.48913	4.8636	0.03498
9500	9500	301.636	1.4747 - 5	0.24523 - 1	3.3600 - 5	1.50021 + 0	4.8571 - 6	0.02427 - 1
9550	9550	301.419	1.4729	0.23563	3.3765	1.51156	4.8506	0.01355
9600	9600	301.203	1.4712	0.22603	3.3932	1.52299	4.8441	0.00284
9650	9650	300.986	1.4694	0.21643	3.4100	1.53440	4.8377	7.99212
9700	9700	300.769	1.4677	0.20683	3.4269	1.54606	4.8312	7.98139
9750	9750	300.551	1.4659	0.19723	3.4439	1.55770	4.8247	7.97067
9800	9800	300.334	1.4642	0.18763	3.4611	1.56942	4.8182	7.95994
9850	9850	300.117	1.4624	0.17803	3.4783	1.58121	4.8117	7.94921
9900	9900	299.899	1.4606	0.16843	3.4956	1.59306	4.8052	7.93847
9950	9950	299.681	1.4589	0.15883	3.5131	1.60507	4.7987	7.92773
10000	10000	299.463	1.4571 - 5	0.14923 - 1	3.5306 - 5	1.61706 + 0	4.7922 - 6	7.91699 - 1
10050	10050	299.245	1.4553	0.13963	3.5483	1.62914	4.7857	7.90624
10100	10100	299.027	1.4534	0.13003	3.5661	1.64131	4.7792	7.89550
10150	10150	298.808	1.4516	0.12043	3.5840	1.65354	4.7727	7.88474
10200	10200	298.590	1.4500	0.11083	3.6020	1.66580	4.7661	7.87399
10250	10250	298.371	1.4483	0.10123	3.6201	1.67809	4.7596	7.86323
10300	10300	298.152	1.4465	0.09163	3.6383	1.69047	4.7531	7.85247
10350	10350	297.933	1.4447	0.08203	3.6567	1.70285	4.7466	7.84170
10400	10400	297.713	1.4430	0.07243	3.6752	1.71529	4.7401	7.83093
10450	10450	297.494	1.4412	0.06283	3.6938	1.72772	4.7336	7.82016
10500	10500	297.274	1.4394 - 5	0.05323 - 1	3.7125 - 5	1.74015 + 0	4.7270 - 6	7.80939 - 1
10550	10550	297.055	1.4376	0.04363	3.7313	1.75264	4.7205	7.79861
10600	10600	296.835	1.4359	0.03403	3.7503	1.76511	4.7140	7.78783
10650	10650	296.615	1.4341	0.02443	3.7693	1.77767	4.7075	7.77704
10700	10700	296.394	1.4323	0.01483	3.7885	1.79031	4.7009	7.76624
10750	10750	296.174	1.4305	0.00523	3.8079	1.80295	4.6944	7.75546
10800	10800	295.953	1.4287	0.00063	3.8273	1.81567	4.6879	7.74467
10850	10850	295.733	1.4270	0.00003	3.8469	1.82837	4.6814	7.73387
10900	10900	295.512	1.4252	0.00000	3.8666	1.84106	4.6748	7.72307
10950	10950	295.291	1.4234	0.00000	3.8864	1.85374	4.6683	7.71227

TABLE III. - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
7000	6992	312.964	1.5612 - 5	0.72493 - 1	2.4661 + 5	1.81147 + 0	5.1798 - 6	0.55734 - 1
7050	7042	312.097	1.5595	0.71545	2.4573	1.81985	5.1734	0.55682
7100	7092	311.888	1.5578	0.70597	2.4505	1.82824	5.1670	0.55630
7150	7142	311.679	1.5561	0.69648	2.4429	1.83670	5.1607	0.55576
7200	7192	311.470	1.5544	0.68699	2.4353	1.84520	5.1543	0.55523
7250	7242	311.261	1.5527	0.67749	2.4278	1.85374	5.1479	0.55469
7300	7292	311.051	1.5510	0.66799	2.4204	1.86237	5.1415	0.55415
7350	7342	310.842	1.5493	0.65848	2.4130	1.87102	5.1352	0.55360
7400	7392	310.632	1.5476	0.64894	2.4056	1.87973	5.1288	0.55306
7450	7441	310.422	1.5459	0.63944	2.3984	1.88849	5.1224	0.55251
7500	7491	310.212	1.5442 - 5	0.62991 - 1	2.3914 - 5	1.89731 + 0	5.1160 - 6	0.55196 - 1
7550	7541	310.002	1.5425	0.62038	2.3844	1.90617	5.1096	0.55140
7600	7591	309.792	1.5408	0.61084	2.3774	1.91509	5.1032	0.55084
7650	7641	309.582	1.5391	0.60130	2.3705	1.92406	5.0968	0.55028
7700	7691	309.371	1.5374	0.59175	2.3635	1.93308	5.0904	0.54971
7750	7741	309.160	1.5357	0.58219	2.3566	1.94216	5.0840	0.54915
7800	7791	308.950	1.5340	0.57263	2.3497	1.95129	5.0776	0.54858
7850	7840	308.739	1.5323	0.56306	2.3427	1.96046	5.0712	0.54800
7900	7890	308.528	1.5305	0.55349	2.3357	1.96972	5.0648	0.54742
7950	7940	308.317	1.5288	0.54391	2.3288	1.97901	5.0584	0.54684
8000	7990	308.105	1.5271 - 5	0.53433 - 1	2.3218 - 5	1.98834 + 0	5.0520 - 6	0.54626 - 1
8050	8040	307.894	1.5254	0.52476	2.3148	1.99777	5.0456	0.54567
8100	8090	307.682	1.5237	0.51514	2.3078	2.00724	5.0392	0.54508
8150	8140	307.470	1.5220	0.50554	2.3008	2.01674	5.0328	0.54449
8200	8189	307.258	1.5202	0.49593	2.2939	2.02624	5.0264	0.54389
8250	8239	307.046	1.5185	0.48632	2.2869	2.03574	5.0200	0.54329
8300	8289	306.834	1.5168	0.47670	2.2800	2.04527	5.0135	0.54269
8350	8339	306.622	1.5151	0.46708	2.2730	2.05482	5.0071	0.54209
8400	8389	306.409	1.5134	0.45745	2.2660	2.06434	5.0007	0.54148
8450	8439	306.197	1.5116	0.44781	2.2590	2.07381	4.9943	0.54087
8500	8489	305.984	1.5099 - 5	0.43817 - 1	2.2520 - 5	2.08324 + 0	4.9878 - 6	0.54025 - 1
8550	8539	305.771	1.5082	0.42852	2.2450	2.09264	4.9814	0.53963
8600	8589	305.558	1.5065	0.41887	2.2380	2.10209	4.9750	0.53900
8650	8639	305.345	1.5047	0.40921	2.2310	2.11150	4.9686	0.53837
8700	8689	305.131	1.5030	0.39955	2.2240	2.12096	4.9621	0.53774
8750	8739	304.918	1.5013	0.38988	2.2170	2.13046	4.9557	0.53710
8800	8789	304.704	1.4995	0.38020	2.2100	2.13992	4.9493	0.53646
8850	8839	304.490	1.4978	0.37052	2.2030	2.14932	4.9428	0.53581
8900	8889	304.276	1.4961	0.36083	2.1960	2.15872	4.9364	0.53516
8950	8939	304.062	1.4943	0.35114	2.1890	2.16812	4.9299	0.53450
9000	8987	303.848	1.4926 - 5	0.34144 - 1	2.1820 - 5	2.17757 + 0	4.9235 - 6	0.53383 - 1
9050	9037	303.634	1.4909	0.33173	2.1750	2.18709	4.9170	0.53318
9100	9087	303.419	1.4891	0.32202	2.1680	2.19664	4.9106	0.53253
9150	9137	303.204	1.4874	0.31230	2.1610	2.20624	4.9042	0.53187
9200	9187	302.989	1.4856	0.30258	2.1540	2.21584	4.8978	0.53121
9250	9237	302.775	1.4839	0.29285	2.1470	2.22544	4.8914	0.53055
9300	9286	302.559	1.4822	0.28311	2.1400	2.23504	4.8850	0.52989
9350	9336	302.344	1.4804	0.27337	2.1330	2.24464	4.8786	0.52923
9400	9386	302.129	1.4787	0.26362	2.1260	2.25424	4.8721	0.52857
9450	9436	301.913	1.4769	0.25387	2.1190	2.26384	4.8657	0.52790
9500	9486	301.697	1.4752 - 5	0.24411 - 1	2.1120 - 5	2.27344 + 0	4.8593 - 6	0.52723 - 1
9550	9536	301.481	1.4734	0.23434	2.1050	2.28304	4.8529	0.52657
9600	9586	301.265	1.4717	0.22457	2.0980	2.29264	4.8464	0.52590
9650	9635	301.049	1.4699	0.21480	2.0910	2.30224	4.8399	0.52523
9700	9685	300.833	1.4682	0.20501	2.0840	2.31184	4.8335	0.52456
9750	9735	300.616	1.4664	0.19522	2.0770	2.32144	4.8271	0.52389
9800	9785	300.400	1.4647	0.18543	2.0700	2.33104	4.8207	0.52322
9850	9835	300.183	1.4629	0.17563	2.0630	2.34064	4.8143	0.52255
9900	9885	299.966	1.4612	0.16582	2.0560	2.35024	4.8078	0.52188
9950	9935	299.749	1.4594	0.15601	2.0490	2.35984	4.8014	0.52121
10000	9984	299.532	1.4577 - 5	0.14619 - 1	2.0420 - 5	2.36944 + 0	4.7950 - 6	0.52054 - 1
10050	10034	299.316	1.4559	0.13634	2.0350	2.37904	4.7886	0.51987
10100	10084	299.097	1.4541	0.12653	2.0280	2.38864	4.7821	0.51920
10150	10134	298.879	1.4524	0.11669	2.0210	2.39824	4.7757	0.51853
10200	10184	298.661	1.4506	0.10685	2.0140	2.40784	4.7693	0.51786
10250	10233	298.443	1.4489	0.09700	2.0070	2.41744	4.7628	0.51719
10300	10283	298.225	1.4471	0.08714	2.0000	2.42704	4.7564	0.51652
10350	10333	298.006	1.4453	0.07728	1.9930	2.43664	4.7500	0.51585
10400	10383	297.788	1.4436	0.06741	1.9860	2.44624	4.7435	0.51518
10450	10433	297.569	1.4418	0.05754	1.9790	2.45584	4.7371	0.51451
10500	10483	297.350	1.4400 - 5	0.04764 - 1	1.9720 - 5	2.46544 + 0	4.7307 - 6	0.51384 - 1
10550	10533	297.131	1.4383	0.03777	1.9650	2.47504	4.7243	0.51317
10600	10583	296.912	1.4365	0.02789	1.9580	2.48464	4.7178	0.51250
10650	10632	296.693	1.4347	0.01798	1.9510	2.49424	4.7114	0.51183
10700	10682	296.474	1.4329	0.00808	1.9440	2.50384	4.7050	0.51116
10750	10732	296.254	1.4312	0.00000	1.9370	2.51344	4.6986	0.51049
10800	10782	296.034	1.4294	0.00000	1.9300	2.52304	4.6921	0.50982
10850	10832	295.814	1.4276	0.00000	1.9230	2.53264	4.6857	0.50915
10900	10881	295.594	1.4258	0.00000	1.9160	2.54224	4.6793	0.50848
10950	10931	295.374	1.4241	0.00000	1.9090	2.55184	4.6728	0.50781

TABLE III. - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °C ⁻¹	$\frac{k}{k_0}$
11000	11019	295.069	1.4216 - 5	7.94472 - 1	3.9004 - 5	2.67631 + 9	4.6617 - 6	7.70146 - 1
11100	11119	295.069	1.4216	7.94472	3.9403	2.71681	4.6617	7.70146
11200	11220	295.069	1.4216	7.94472	4.0316	2.75999	4.6617	7.70146
11300	11320	295.069	1.4216	7.94472	4.0957	2.80346	4.6617	7.70146
11400	11430	295.069	1.4216	7.94472	4.1408	2.84843	4.6617	7.70146
11500	11531	295.069	1.4216	7.94472	4.2269	2.89370	4.6617	7.70146
11600	11631	295.069	1.4216	7.94472	4.2961	2.93969	4.6617	7.70146
11700	11732	295.069	1.4216	7.94472	4.3623	2.98641	4.6617	7.70146
11800	11832	295.069	1.4216	7.94472	4.4316	3.03388	4.6617	7.70146
11900	11932	295.069	1.4216	7.94472	4.5021	3.08210	4.6617	7.70146
12000	12033	295.069	1.4216 - 5	7.94472 - 1	4.5734 - 5	3.13106 + 0	4.6617 - 6	7.70146 - 1
12100	12133	295.069	1.4216	7.94472	4.6463	3.18005	4.6617	7.70146
12200	12233	295.069	1.4216	7.94472	4.7202	3.23141	4.6617	7.70146
12300	12334	295.069	1.4216	7.94472	4.7952	3.28274	4.6617	7.70146
12400	12434	295.069	1.4216	7.94472	4.8714	3.33494	4.6617	7.70146
12500	12535	295.069	1.4216	7.94472	4.9488	3.38795	4.6617	7.70146
12600	12635	295.069	1.4216	7.94472	5.0275	3.44179	4.6617	7.70146
12700	12735	295.069	1.4216	7.94472	5.1074	3.49650	4.6617	7.70146
12800	12836	295.069	1.4216	7.94472	5.1884	3.55207	4.6617	7.70146
12900	12936	295.069	1.4216	7.94472	5.2710	3.60853	4.6617	7.70146
13000	13037	295.069	1.4216 - 5	7.94472 - 1	5.3548 - 5	3.66586 + 0	4.6617 - 6	7.70146 - 1
13100	13137	295.069	1.4216	7.94472	5.4399	3.72414	4.6617	7.70146
13200	13237	295.069	1.4216	7.94472	5.5264	3.78333	4.6617	7.70146
13300	13338	295.069	1.4216	7.94472	5.6142	3.84347	4.6617	7.70146
13400	13438	295.069	1.4216	7.94472	5.7035	3.90455	4.6617	7.70146
13500	13539	295.069	1.4216	7.94472	5.7941	3.96641	4.6617	7.70146
13600	13639	295.069	1.4216	7.94472	5.8862	4.02946	4.6617	7.70146
13700	13740	295.069	1.4216	7.94472	5.9798	4.09370	4.6617	7.70146
13800	13840	295.069	1.4216	7.94472	6.0748	4.15877	4.6617	7.70146
13900	13940	295.069	1.4216	7.94472	6.1713	4.22467	4.6617	7.70146
14000	14041	295.069	1.4216 - 5	7.94472 - 1	6.2694 - 5	4.29202 + 0	4.6617 - 6	7.70146 - 1
14100	14141	295.069	1.4216	7.94472	6.3681	4.36023	4.6617	7.70146
14200	14242	295.069	1.4216	7.94472	6.4670	4.42933	4.6617	7.70146
14300	14342	295.069	1.4216	7.94472	6.5671	4.49994	4.6617	7.70146
14400	14443	295.069	1.4216	7.94472	6.6674	4.57146	4.6617	7.70146
14500	14543	295.069	1.4216	7.94472	6.7688	4.64412	4.6617	7.70146
14600	14644	295.069	1.4216	7.94472	6.8714	4.71795	4.6617	7.70146
14700	14744	295.069	1.4216	7.94472	6.9751	4.79291	4.6617	7.70146
14800	14845	295.069	1.4216	7.94472	7.1124	4.86909	4.6617	7.70146
14900	14945	295.069	1.4216	7.94472	7.2524	4.94648	4.6617	7.70146
15000	15045	295.069	1.4216 - 5	7.94472 - 1	7.3903 - 5	5.02510 + 0	4.6617 - 6	7.70146 - 1
15100	15146	295.069	1.4216	7.94472	7.5304	5.10497	4.6617	7.70146
15200	15246	295.069	1.4216	7.94472	7.6749	5.18611	4.6617	7.70146
15300	15347	295.069	1.4216	7.94472	7.8250	5.26853	4.6617	7.70146
15400	15447	295.069	1.4216	7.94472	7.9782	5.35227	4.6617	7.70146
15500	15548	295.069	1.4216	7.94472	8.1324	5.43734	4.6617	7.70146
15600	15648	295.069	1.4216	7.94472	8.2887	5.52374	4.6617	7.70146
15700	15749	295.069	1.4216	7.94472	8.4469	5.61155	4.6617	7.70146
15800	15849	295.069	1.4216	7.94472	8.6072	5.70074	4.6617	7.70146
15900	15949	295.069	1.4216	7.94472	8.7695	5.79125	4.6617	7.70146
16000	16050	295.069	1.4216 - 5	7.94472 - 1	8.9340 - 5	5.88339 + 0	4.6617 - 6	7.70146 - 1
16100	16151	295.069	1.4216	7.94472	9.1006	5.97490	4.6617	7.70146
16200	16251	295.069	1.4216	7.94472	9.2693	6.07190	4.6617	7.70146
16300	16352	295.069	1.4216	7.94472	9.4403	6.16841	4.6617	7.70146
16400	16452	295.069	1.4216	7.94472	9.6133	6.26645	4.6617	7.70146
16500	16553	295.069	1.4216	7.94472	9.7900	6.36606	4.6617	7.70146
16600	16653	295.069	1.4216	7.94472	9.9688	6.46722	4.6617	7.70146
16700	16754	295.069	1.4216	7.94472	10.1509	6.57001	4.6617	7.70146
16800	16854	295.069	1.4216	7.94472	10.3359	6.67444	4.6617	7.70146
16900	16955	295.069	1.4216	7.94472	10.5224	6.78052	4.6617	7.70146
17000	17056	295.069	1.4216 - 5	7.94472 - 1	1.0662 - 4	6.88829 + 0	4.6617 - 6	7.70146 - 1
17100	17156	295.069	1.4216	7.94472	1.0222	6.99777	4.6617	7.70146
17200	17257	295.069	1.4216	7.94472	1.0384	7.10899	4.6617	7.70146
17300	17357	295.069	1.4216	7.94472	1.0549	7.22198	4.6617	7.70146
17400	17458	295.069	1.4216	7.94472	1.0717	7.33676	4.6617	7.70146
17500	17558	295.069	1.4216	7.94472	1.0887	7.45337	4.6617	7.70146
17600	17659	295.069	1.4216	7.94472	1.1060	7.57184	4.6617	7.70146
17700	17759	295.069	1.4216	7.94472	1.1234	7.69216	4.6617	7.70146
17800	17859	295.069	1.4216	7.94472	1.1415	7.81444	4.6617	7.70146
17900	17959	295.069	1.4216	7.94472	1.1594	7.93864	4.6617	7.70146
18000	18061	295.069	1.4216 - 5	7.94472 - 1	1.1780 - 4	8.06482 + 0	4.6617 - 6	7.70146 - 1
18100	18162	295.069	1.4216	7.94472	1.1968	8.19300	4.6617	7.70146
18200	18262	295.069	1.4216	7.94472	1.2158	8.32321	4.6617	7.70146
18300	18363	295.069	1.4216	7.94472	1.2351	8.45550	4.6617	7.70146
18400	18463	295.069	1.4216	7.94472	1.2547	8.58989	4.6617	7.70146
18500	18564	295.069	1.4216	7.94472	1.2747	8.72642	4.6617	7.70146
18600	18665	295.069	1.4216	7.94472	1.2949	8.86512	4.6617	7.70146
18700	18765	295.069	1.4216	7.94472	1.3155	9.00602	4.6617	7.70146
18800	18866	295.069	1.4216	7.94472	1.3364	9.14916	4.6617	7.70146
18900	18966	295.069	1.4216	7.94472	1.3577	9.29457	4.6617	7.70146

TABLE III. - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
11000	10901	295.134	1.4214 - 5	7.94472 - 1	3.0000 - 5	2.44010 + 0	4.6442 - 6	7.70146 - 1
11100	11001	295.069	1.4214	7.94472	3.9504	2.70034	4.6417	7.70146
11200	11100	295.004	1.4214	7.94472	6.0191	2.75143	4.6417	7.70146
11300	11200	295.000	1.4214	7.94472	6.0227	2.75501	4.6417	7.70146
11400	11300	295.000	1.4214	7.94472	6.1474	2.83027	4.6417	7.70146
11500	11400	295.000	1.4214	7.94472	6.2151	2.86424	4.6417	7.70146
11600	11500	295.000	1.4214	7.94472	6.2799	2.89901	4.6417	7.70146
11700	11600	295.000	1.4214	7.94472	6.3475	2.93437	4.6417	7.70146
11800	11700	295.000	1.4214	7.94472	6.4144	3.0234	4.6417	7.70146
11900	11800	295.000	1.4214	7.94472	6.4866	3.07131	4.6417	7.70146
12000	11901	295.000	1.4214 - 5	7.94472 - 1	6.5574 - 5	3.11094 + 0	4.6417 - 6	7.70146 - 1
12100	12001	295.000	1.4214	7.94472	6.6295	3.16034	4.6417	7.70146
12200	12100	295.000	1.4214	7.94472	6.7028	3.21032	4.6417	7.70146
12300	12200	295.000	1.4214	7.94472	6.7773	3.26049	4.6417	7.70146
12400	12300	295.000	1.4214	7.94472	6.8529	3.32227	4.6417	7.70146
12500	12400	295.000	1.4214	7.94472	6.9297	3.37488	4.6417	7.70146
12600	12500	295.000	1.4214	7.94472	7.0070	3.42829	4.6417	7.70146
12700	12600	295.000	1.4214	7.94472	7.0850	3.48256	4.6417	7.70146
12800	12700	295.000	1.4214	7.94472	7.1674	3.53749	4.6417	7.70146
12900	12800	295.000	1.4214	7.94472	7.2504	3.59349	4.6417	7.70146
13000	12901	295.000	1.4214 - 5	7.94472 - 1	7.3325 - 5	3.65057 + 0	4.6417 - 6	7.70146 - 1
13100	13001	295.000	1.4214	7.94472	7.4169	3.70835	4.6417	7.70146
13200	13100	295.000	1.4214	7.94472	7.5026	3.76705	4.6417	7.70146
13300	13200	295.000	1.4214	7.94472	7.5897	3.82667	4.6417	7.70146
13400	13300	295.000	1.4214	7.94472	7.6782	3.88723	4.6417	7.70146
13500	13400	295.000	1.4214	7.94472	7.7690	3.94876	4.6417	7.70146
13600	13500	295.000	1.4214	7.94472	7.8623	4.01125	4.6417	7.70146
13700	13600	295.000	1.4214	7.94472	7.9580	4.07473	4.6417	7.70146
13800	13700	295.000	1.4214	7.94472	8.0562	4.13921	4.6417	7.70146
13900	13800	295.000	1.4214	7.94472	8.1519	4.20471	4.6417	7.70146
14000	13901	295.000	1.4214 - 5	7.94472 - 1	8.2361 - 5	4.27124 + 0	4.6417 - 6	7.70146 - 1
14100	14001	295.000	1.4214	7.94472	8.3370	4.33803	4.6417	7.70146
14200	14100	295.000	1.4214	7.94472	8.4381	4.40740	4.6417	7.70146
14300	14200	295.000	1.4214	7.94472	8.5400	4.47722	4.6417	7.70146
14400	14300	295.000	1.4214	7.94472	8.6434	4.54805	4.6417	7.70146
14500	14400	295.000	1.4214	7.94472	8.7485	4.62001	4.6417	7.70146
14600	14500	295.000	1.4214	7.94472	8.8553	4.69310	4.6417	7.70146
14700	14600	295.000	1.4214	7.94472	8.9638	4.76725	4.6417	7.70146
14800	14700	295.000	1.4214	7.94472	9.0739	4.84277	4.6417	7.70146
14900	14800	295.000	1.4214	7.94472	9.1858	4.91937	4.6417	7.70146
15000	14901	295.000	1.4214 - 5	7.94472 - 1	9.2995 - 5	4.99719 + 0	4.6417 - 6	7.70146 - 1
15100	15001	295.000	1.4214	7.94472	9.4150	5.07624	4.6417	7.70146
15200	15100	295.000	1.4214	7.94472	9.5323	5.15653	4.6417	7.70146
15300	15200	295.000	1.4214	7.94472	9.6514	5.23810	4.6417	7.70146
15400	15300	295.000	1.4214	7.94472	9.7724	5.32095	4.6417	7.70146
15500	15400	295.000	1.4214	7.94472	9.8953	5.40510	4.6417	7.70146
15600	15500	295.000	1.4214	7.94472	10.0202	5.49059	4.6417	7.70146
15700	15600	295.000	1.4214	7.94472	10.1471	5.57742	4.6417	7.70146
15800	15700	295.000	1.4214	7.94472	10.2759	5.66563	4.6417	7.70146
15900	15800	295.000	1.4214	7.94472	10.4060	5.75523	4.6417	7.70146
16000	15901	295.000	1.4214 - 5	7.94472 - 1	10.5397 - 5	5.84624 + 0	4.6417 - 6	7.70146 - 1
16100	16001	295.000	1.4214	7.94472	10.6748	5.93869	4.6417	7.70146
16200	16100	295.000	1.4214	7.94472	10.8119	6.03259	4.6417	7.70146
16300	16200	295.000	1.4214	7.94472	10.9513	6.12798	4.6417	7.70146
16400	16300	295.000	1.4214	7.94472	11.0928	6.22488	4.6417	7.70146
16500	16400	295.000	1.4214	7.94472	11.2364	6.32330	4.6417	7.70146
16600	16500	295.000	1.4214	7.94472	11.3826	6.42328	4.6417	7.70146
16700	16600	295.000	1.4214	7.94472	11.5309	6.52483	4.6417	7.70146
16800	16700	295.000	1.4214	7.94472	11.6814	6.62799	4.6417	7.70146
16900	16800	295.000	1.4214	7.94472	11.8347	6.73277	4.6417	7.70146
17000	16901	295.000	1.4214 - 5	7.94472 - 1	11.9902 - 5	6.83921 + 0	4.6417 - 6	7.70146 - 1
17100	17001	295.000	1.4214	7.94472	12.1488	6.94732	4.6417	7.70146
17200	17100	295.000	1.4214	7.94472	12.3099	7.05714	4.6417	7.70146
17300	17200	295.000	1.4214	7.94472	12.4737	7.16870	4.6417	7.70146
17400	17300	295.000	1.4214	7.94472	12.6401	7.28201	4.6417	7.70146
17500	17400	295.000	1.4214	7.94472	12.8095	7.39711	4.6417	7.70146
17600	17500	295.000	1.4214	7.94472	12.9819	7.51403	4.6417	7.70146
17700	17600	295.000	1.4214	7.94472	13.1569	7.63279	4.6417	7.70146
17800	17700	295.000	1.4214	7.94472	13.3346	7.75342	4.6417	7.70146
17900	17800	295.000	1.4214	7.94472	13.5150	7.87594	4.6417	7.70146
18000	17901	295.000	1.4214 - 5	7.94472 - 1	13.6984 - 5	8.00043 + 0	4.6417 - 6	7.70146 - 1
18100	18001	295.000	1.4214	7.94472	13.8781	8.12686	4.6417	7.70146
18200	18100	295.000	1.4214	7.94472	14.0609	8.25529	4.6417	7.70146
18300	18200	295.000	1.4214	7.94472	14.2469	8.38574	4.6417	7.70146
18400	18300	295.000	1.4214	7.94472	14.4353	8.51825	4.6417	7.70146
18500	18400	295.000	1.4214	7.94472	14.6263	8.65285	4.6417	7.70146
18600	18500	295.000	1.4214	7.94472	14.8199	8.78957	4.6417	7.70146
18700	18600	295.000	1.4214	7.94472	15.0162	8.92845	4.6417	7.70146
18800	18700	295.000	1.4214	7.94472	15.2153	9.06952	4.6417	7.70146
18900	18800	295.000	1.4214	7.94472	15.4173	9.21281	4.6417	7.70146

TABLE III - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ (°K) ⁻¹	$\frac{k}{k_0}$
19000	19057	295.009	1.4216 - 5	7.94472	1.3793 - 4	9.44230 + 0	4.5617 - 8	7.70146 - 1
19100	19158	295.009	1.4216	7.94472	1.4012	9.59237	4.6617	7.70146
19200	19258	295.009	1.4216	7.94472	1.4234	9.74403	4.6617	7.70146
19300	19359	295.009	1.4216	7.94472	1.4461	9.89972	4.6617	7.70146
19400	19459	295.009	1.4216	7.94472	1.4691	1.00571 + 1	4.6617	7.70146
19500	19560	295.009	1.4216	7.94472	1.4924	1.02169	4.6617	7.70146
19600	19661	295.009	1.4216	7.94472	1.5161	1.03793	4.6617	7.70146
19700	19761	295.009	1.4216	7.94472	1.5402	1.05443	4.6617	7.70146
19800	19862	295.009	1.4216	7.94472	1.5647	1.07116	4.6617	7.70146
19900	19963	295.009	1.4216	7.94472	1.5894	1.08821	4.6617	7.70146
20000	20064	295.009	1.4216 - 5	7.94472 - 1	1.6140 - 4	1.10551 + 1	4.6617 - 8	7.70146 - 1
20100	20164	295.188	1.4222	7.97783	1.6389	1.12402	4.6627	7.70479
20200	20264	295.266	1.4227	7.95087	1.6644	1.14205	4.6657	7.70811
20300	20365	295.274	1.4233	7.95304	1.6903	1.16197	4.6678	7.71144
20400	20466	295.342	1.4238	7.95700	1.7257	1.18141	4.6698	7.71476
20500	20566	295.410	1.4244	7.96067	1.7594	1.20114	4.6716	7.71807
20600	20667	295.478	1.4249	7.96316	1.7854	1.22124	4.6738	7.72141
20700	20768	295.546	1.4255	7.96621	1.8137	1.24164	4.6758	7.72473
20800	20868	295.614	1.4260	7.96928	1.8440	1.26237	4.6778	7.72806
20900	20969	295.682	1.4266	7.97234	1.8767	1.28344	4.6798	7.73139
21000	21070	295.750	1.4271 - 5	7.97541 - 1	1.9040 - 4	1.30485 + 1	4.6818 - 8	7.73470 - 1
21100	21170	295.818	1.4277	7.97847	1.9378	1.32661	4.6859	7.73803
21200	21271	295.885	1.4282	7.98154	1.9701	1.34872	4.6859	7.74135
21300	21372	295.953	1.4287	7.98460	2.0029	1.37110	4.6879	7.74467
21400	21472	296.021	1.4293	7.98766	2.0363	1.39401	4.6899	7.74799
21500	21573	296.089	1.4298	7.99073	2.0702	1.41721	4.6919	7.75131
21600	21674	296.157	1.4304	7.99379	2.1046	1.44079	4.6939	7.75463
21700	21775	296.225	1.4309	7.99685	2.1394	1.46475	4.6959	7.75794
21800	21876	296.293	1.4315	7.99991	2.1751	1.48909	4.6979	7.76128
21900	21976	296.360	1.4320	8.00297	2.2113	1.51383	4.6999	7.76460
22000	22076	296.428	1.4326 - 5	8.00603 - 1	2.2480 - 4	1.53894 + 1	4.7019 - 8	7.76792 - 1
22100	22177	296.494	1.4331	8.00909	2.2853	1.56450	4.7040	7.77123
22200	22278	296.564	1.4337	8.01215	2.3232	1.59046	4.7060	7.77455
22300	22379	296.632	1.4342	8.01521	2.3617	1.61683	4.7080	7.77787
22400	22479	296.699	1.4348	8.01826	2.4009	1.64363	4.7100	7.78119
22500	22580	296.767	1.4353	8.02132	2.4407	1.67085	4.7120	7.78451
22600	22681	296.835	1.4359	8.02438	2.4811	1.69852	4.7140	7.78783
22700	22781	296.902	1.4364	8.02743	2.5221	1.72663	4.7160	7.79115
22800	22882	296.970	1.4370	8.03049	2.5638	1.75520	4.7180	7.79446
22900	22983	297.038	1.4375	8.03354	2.6062	1.78422	4.7200	7.79778
23000	23084	297.105	1.4381 - 5	8.03659 - 1	2.6493 - 4	1.81371 + 1	4.7220 - 8	7.80110 - 1
23100	23184	297.173	1.4386	8.03965	2.6931	1.84367	4.7240	7.80441
23200	23285	297.241	1.4391	8.04270	2.7376	1.87411	4.7260	7.80773
23300	23386	297.309	1.4397	8.04575	2.7827	1.90504	4.7280	7.81105
23400	23486	297.376	1.4402	8.04880	2.8284	1.93647	4.7301	7.81436
23500	23587	297.443	1.4408	8.05185	2.8753	1.96840	4.7321	7.81768
23600	23688	297.511	1.4413	8.05490	2.9227	2.00085	4.7341	7.82099
23700	23789	297.578	1.4419	8.05795	2.9708	2.03381	4.7361	7.82431
23800	23890	297.646	1.4424	8.06100	3.0197	2.06730	4.7381	7.82762
23900	23990	297.713	1.4430	8.06405	3.0694	2.10132	4.7401	7.83093
24000	24091	297.781	1.4435 - 5	8.06710 - 1	3.1199 - 4	2.13589 + 1	4.7421 - 8	7.83425 - 1
24100	24192	297.848	1.4441	8.07016	3.1712	2.17102	4.7441	7.83756
24200	24292	297.916	1.4446	8.07319	3.2234	2.20670	4.7461	7.84087
24300	24393	297.983	1.4451	8.07624	3.2763	2.24295	4.7481	7.84419
24400	24494	298.051	1.4457	8.07928	3.3301	2.27979	4.7501	7.84750
24500	24595	298.118	1.4462	8.08233	3.3848	2.31721	4.7521	7.85081
24600	24696	298.186	1.4468	8.08537	3.4403	2.35522	4.7541	7.85412
24700	24796	298.253	1.4473	8.08841	3.4967	2.39385	4.7561	7.85744
24800	24897	298.320	1.4479	8.09146	3.5541	2.43308	4.7581	7.86075
24900	24998	298.388	1.4484	8.09450	3.6123	2.47295	4.7601	7.86406
25000	25099	298.455	1.4490 - 5	8.09754 - 1	3.6714 - 4	2.51344 + 1	4.7621 - 8	7.86737 - 1
25100	25199	298.522	1.4495	8.10058	3.7315	2.55459	4.7641	7.87068
25200	25300	298.590	1.4500	8.10362	3.7926	2.59638	4.7661	7.87399
25300	25401	298.657	1.4506	8.10666	3.8546	2.63884	4.7682	7.87730
25400	25502	298.724	1.4511	8.10970	3.9174	2.68198	4.7702	7.88061
25500	25603	298.791	1.4517	8.11274	3.9816	2.72510	4.7722	7.88392
25600	25704	298.859	1.4522	8.11578	4.0467	2.77031	4.7742	7.88723
25700	25804	298.926	1.4528	8.11881	4.1127	2.81554	4.7762	7.89053
25800	25905	298.993	1.4533	8.12185	4.1798	2.86198	4.7782	7.89384
25900	26006	299.060	1.4539	8.12489	4.2480	2.90814	4.7802	7.89715
26000	26107	299.127	1.4544 - 5	8.12792 - 1	4.3172 - 4	2.95555 + 1	4.7822 - 8	7.90046 - 1
26100	26208	299.195	1.4549	8.13096	4.3876	3.00371	4.7842	7.90376
26200	26308	299.262	1.4555	8.13399	4.4580	3.05263	4.7862	7.90707
26300	26409	299.329	1.4560	8.13703	4.5294	3.10233	4.7882	7.91038
26400	26510	299.396	1.4566	8.14006	4.6008	3.15281	4.7902	7.91368
26500	26611	299.463	1.4571	8.14309	4.6803	3.20408	4.7922	7.91699
26600	26712	299.530	1.4577	8.14612	4.7564	3.25617	4.7942	7.92030
26700	26813	299.597	1.4582	8.14916	4.8336	3.30909	4.7962	7.92360
26800	26913	299.664	1.4587	8.15219	4.9122	3.36283	4.7982	7.92691
26900	27014	299.731	1.4593	8.15522	4.9919	3.41743	4.8002	7.93021

TABLE III - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
19800	18963	295.069	1.4216 - 5	7.94672 - 1	1.3670 - 6	0.19616 + 0	0.6617 - 6	7.70166 - 1
19100	18063	295.069	1.4216	7.94672	1.3688	0.19620	0.6617	7.70166
19000	17962	295.069	1.4216	7.94672	1.4105	0.19634	0.6617	7.70166
18300	17262	295.069	1.4216	7.94672	1.4328	0.19650	0.6617	7.70166
18200	17161	295.069	1.4216	7.94672	1.4354	0.19657	0.6617	7.70166
18100	17060	295.069	1.4216	7.94672	1.4380	0.19664	0.6617	7.70166
18000	16959	295.069	1.4216	7.94672	1.4406	0.19671	0.6617	7.70166
17900	16858	295.069	1.4216	7.94672	1.4432	0.19678	0.6617	7.70166
17800	16757	295.069	1.4216	7.94672	1.4458	0.19685	0.6617	7.70166
17700	16656	295.069	1.4216	7.94672	1.4484	0.19692	0.6617	7.70166
17600	16555	295.069	1.4216	7.94672	1.4510	0.19699	0.6617	7.70166
17500	16454	295.069	1.4216	7.94672	1.4536	0.19706	0.6617	7.70166
17400	16353	295.069	1.4216	7.94672	1.4562	0.19713	0.6617	7.70166
17300	16252	295.069	1.4216	7.94672	1.4588	0.19720	0.6617	7.70166
17200	16151	295.069	1.4216	7.94672	1.4614	0.19727	0.6617	7.70166
17100	16050	295.069	1.4216	7.94672	1.4640	0.19734	0.6617	7.70166
17000	15949	295.069	1.4216	7.94672	1.4666	0.19741	0.6617	7.70166
16900	15848	295.069	1.4216	7.94672	1.4692	0.19748	0.6617	7.70166
16800	15747	295.069	1.4216	7.94672	1.4718	0.19755	0.6617	7.70166
16700	15646	295.069	1.4216	7.94672	1.4744	0.19762	0.6617	7.70166
16600	15545	295.069	1.4216	7.94672	1.4770	0.19769	0.6617	7.70166
16500	15444	295.069	1.4216	7.94672	1.4796	0.19776	0.6617	7.70166
16400	15343	295.069	1.4216	7.94672	1.4822	0.19783	0.6617	7.70166
16300	15242	295.069	1.4216	7.94672	1.4848	0.19790	0.6617	7.70166
16200	15141	295.069	1.4216	7.94672	1.4874	0.19797	0.6617	7.70166
16100	15040	295.069	1.4216	7.94672	1.4900	0.19804	0.6617	7.70166
16000	14939	295.069	1.4216	7.94672	1.4926	0.19811	0.6617	7.70166
15900	14838	295.069	1.4216	7.94672	1.4952	0.19818	0.6617	7.70166
15800	14737	295.069	1.4216	7.94672	1.4978	0.19825	0.6617	7.70166
15700	14636	295.069	1.4216	7.94672	1.5004	0.19832	0.6617	7.70166
15600	14535	295.069	1.4216	7.94672	1.5030	0.19839	0.6617	7.70166
15500	14434	295.069	1.4216	7.94672	1.5056	0.19846	0.6617	7.70166
15400	14333	295.069	1.4216	7.94672	1.5082	0.19853	0.6617	7.70166
15300	14232	295.069	1.4216	7.94672	1.5108	0.19860	0.6617	7.70166
15200	14131	295.069	1.4216	7.94672	1.5134	0.19867	0.6617	7.70166
15100	14030	295.069	1.4216	7.94672	1.5160	0.19874	0.6617	7.70166
15000	13929	295.069	1.4216	7.94672	1.5186	0.19881	0.6617	7.70166
14900	13828	295.069	1.4216	7.94672	1.5212	0.19888	0.6617	7.70166
14800	13727	295.069	1.4216	7.94672	1.5238	0.19895	0.6617	7.70166
14700	13626	295.069	1.4216	7.94672	1.5264	0.19902	0.6617	7.70166
14600	13525	295.069	1.4216	7.94672	1.5290	0.19909	0.6617	7.70166
14500	13424	295.069	1.4216	7.94672	1.5316	0.19916	0.6617	7.70166
14400	13323	295.069	1.4216	7.94672	1.5342	0.19923	0.6617	7.70166
14300	13222	295.069	1.4216	7.94672	1.5368	0.19930	0.6617	7.70166
14200	13121	295.069	1.4216	7.94672	1.5394	0.19937	0.6617	7.70166
14100	13020	295.069	1.4216	7.94672	1.5420	0.19944	0.6617	7.70166
14000	12919	295.069	1.4216	7.94672	1.5446	0.19951	0.6617	7.70166
13900	12818	295.069	1.4216	7.94672	1.5472	0.19958	0.6617	7.70166
13800	12717	295.069	1.4216	7.94672	1.5498	0.19965	0.6617	7.70166
13700	12616	295.069	1.4216	7.94672	1.5524	0.19972	0.6617	7.70166
13600	12515	295.069	1.4216	7.94672	1.5550	0.19979	0.6617	7.70166
13500	12414	295.069	1.4216	7.94672	1.5576	0.19986	0.6617	7.70166
13400	12313	295.069	1.4216	7.94672	1.5602	0.19993	0.6617	7.70166
13300	12212	295.069	1.4216	7.94672	1.5628	0.20000	0.6617	7.70166
13200	12111	295.069	1.4216	7.94672	1.5654	0.20007	0.6617	7.70166
13100	12010	295.069	1.4216	7.94672	1.5680	0.20014	0.6617	7.70166
13000	11909	295.069	1.4216	7.94672	1.5706	0.20021	0.6617	7.70166
12900	11808	295.069	1.4216	7.94672	1.5732	0.20028	0.6617	7.70166
12800	11707	295.069	1.4216	7.94672	1.5758	0.20035	0.6617	7.70166
12700	11606	295.069	1.4216	7.94672	1.5784	0.20042	0.6617	7.70166
12600	11505	295.069	1.4216	7.94672	1.5810	0.20049	0.6617	7.70166
12500	11404	295.069	1.4216	7.94672	1.5836	0.20056	0.6617	7.70166
12400	11303	295.069	1.4216	7.94672	1.5862	0.20063	0.6617	7.70166
12300	11202	295.069	1.4216	7.94672	1.5888	0.20070	0.6617	7.70166
12200	11101	295.069	1.4216	7.94672	1.5914	0.20077	0.6617	7.70166
12100	11000	295.069	1.4216	7.94672	1.5940	0.20084	0.6617	7.70166
12000	10899	295.069	1.4216	7.94672	1.5966	0.20091	0.6617	7.70166
11900	10798	295.069	1.4216	7.94672	1.5992	0.20098	0.6617	7.70166
11800	10697	295.069	1.4216	7.94672	1.6018	0.20105	0.6617	7.70166
11700	10596	295.069	1.4216	7.94672	1.6044	0.20112	0.6617	7.70166
11600	10495	295.069	1.4216	7.94672	1.6070	0.20119	0.6617	7.70166
11500	10394	295.069	1.4216	7.94672	1.6096	0.20126	0.6617	7.70166
11400	10293	295.069	1.4216	7.94672	1.6122	0.20133	0.6617	7.70166
11300	10192	295.069	1.4216	7.94672	1.6148	0.20140	0.6617	7.70166
11200	10091	295.069	1.4216	7.94672	1.6174	0.20147	0.6617	7.70166
11100	9990	295.069	1.4216	7.94672	1.6200	0.20154	0.6617	7.70166
11000	9889	295.069	1.4216	7.94672	1.6226	0.20161	0.6617	7.70166
10900	9788	295.069	1.4216	7.94672	1.6252	0.20168	0.6617	7.70166
10800	9687	295.069	1.4216	7.94672	1.6278	0.20175	0.6617	7.70166
10700	9586	295.069	1.4216	7.94672	1.6304	0.20182	0.6617	7.70166
10600	9485	295.069	1.4216	7.94672	1.6330	0.20189	0.6617	7.70166
10500	9384	295.069	1.4216	7.94672	1.6356	0.20196	0.6617	7.70166
10400	9283	295.069	1.4216	7.94672	1.6382	0.20203	0.6617	7.70166
10300	9182	295.069	1.4216	7.94672	1.6408	0.20210	0.6617	7.70166
10200	9081	295.069	1.4216	7.94672	1.6434	0.20217	0.6617	7.70166
10100	8980	295.069	1.4216	7.94672	1.6460	0.20224	0.6617	7.70166
10000	8879	295.069	1.4216	7.94672	1.6486	0.20231	0.6617	7.70166
9900	8778	295.069	1.4216	7.94672	1.6512	0.20238	0.6617	7.70166
9800	8677	295.069	1.4216	7.94672	1.6538	0.20245	0.6617	7.70166
9700	8576	295.069	1.4216	7.94672	1.6564	0.20252	0.6617	7.70166
9600	8475	295.069	1.4216	7.94672	1.6590	0.20259	0.6617	7.70166
9500	8374	295.069	1.4216	7.94672	1.6616	0.20266	0.6617	7.70166
9400	8273	295.069	1.4216	7.94672	1.6642	0.20273	0.6617	7.70166
9300	8172	295.069	1.4216	7.94672	1.6668	0.20280	0.6617	7.70166
9200	8071	295.069	1.4216	7.94672	1.6694	0.20287	0.6617	7.70166
9100	7970	295.069	1.4216	7.94672	1.6720	0.20294	0.6617	7.70166
9000	7869	295.069	1.4216	7.94672	1.6746	0.20301	0.6617	7.70166
8900	7768	295.069	1.4216	7.94672	1.6772	0.20308	0.6617	7.70166
8800	7667	295.069	1.4216	7.94672	1.6798	0.20315	0.6617	7.70166
8700	7566	295.069	1.4216	7.94672	1.6824	0.20322	0.6617	7.70166
8600	7465	295.069	1.4216	7.94672	1.6850	0.20329	0.6617	7.70166
8500	7364	295.069	1.4216	7.94672	1.6876	0.20336	0.6617	7.70166
8400	7263	295.069	1.4216	7.94672	1.6902	0.20343	0.6617	7.70166
8300	7162	295.069	1.4216	7.94672	1.6928	0.20350	0.6617	7.70166
8200	7061	295.069	1.4216	7.94672	1.6954	0.20357	0.6617	7.70166
8100	6960	295.069	1.4216	7.94672	1.6980	0.20364	0.6617	7.70166
8000	6859	295.069	1.4216	7.94672	1.7006	0.20371	0.6617	7.70166
7900	6758	295.069	1.4216	7.94672	1.7032	0.20378	0.6617	7.70166
7800	6657	295.069	1.4216	7.94672	1.7058	0.20385	0.6617	7.70166
7700	6556	295.069	1.4216	7.94672	1.7084	0.20392	0.6617	7.70166
7600	6455	295.069	1.4216	7.94672	1.7110	0.20399	0.6617	7.70166
7500	6354	295.069	1.4216	7.94672	1.7136	0.20406	0.6617	7.70166
7400	6253	295.069	1.4216	7.94672	1.7162	0.20413	0.6617	7.70166
7300	6152	295.069						

TABLE III. - Continued
GEOPOTENTIAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\rho_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
27000	27115	299.799	1.4590 - 5	0.15025 - 1	5.0729 - 6	3.47289 + 1	4.0022 - 6	7.93352 - 1
27100	27214	299.805	1.4600	0.15120	5.1532	3.52923	4.0042	7.93482
27200	27317	299.832	1.4609	0.15230	5.2380	3.58646	4.0062	7.93612
27300	27418	299.899	1.4616	0.15357	5.3257	3.64456	4.0082	7.93745
27400	27519	300.000	1.4620	0.15499	5.4099	3.70327	4.0102	7.93879
27500	27620	300.133	1.4625	0.15659	5.4975	3.76334	4.0122	7.94009
27600	27720	300.300	1.4631	0.15841	5.5895	3.82446	4.0142	7.94134
27700	27821	300.500	1.4636	0.16044	5.6860	3.88635	4.0162	7.94264
27800	27922	300.734	1.4642	0.16266	5.7880	3.94917	4.0182	7.94394
27900	28023	301.001	1.4647	0.16509	5.8961	4.01299	4.0202	7.94524
28000	28124	301.300	1.4652	0.16771	5.9966	4.07782	4.0222	7.94654
28100	28225	301.633	1.4658	0.17053	6.0927	4.14367	4.0242	7.94784
28200	28326	302.000	1.4662	0.17356	6.1850	4.21054	4.0262	7.94914
28300	28427	302.400	1.4669	0.17682	6.2738	4.27847	4.0282	7.95044
28400	28528	302.833	1.4674	0.18030	6.3590	4.34746	4.0302	7.95174
28500	28629	303.300	1.4679	0.18402	6.4420	4.41753	4.0322	7.95304
28600	28730	303.800	1.4685	0.18800	6.5234	4.48870	4.0342	7.95434
28700	28831	304.334	1.4690	0.19224	6.6035	4.56099	4.0362	7.95564
28800	28932	304.901	1.4696	0.19674	6.6820	4.63440	4.0382	7.95694
28900	29033	305.500	1.4701	0.20150	6.7585	4.70897	4.0402	7.95824
29000	29134	306.133	1.4706	0.20653	6.8331	4.78469	4.0422	7.95954
29100	29235	306.800	1.4712	0.21183	6.9057	4.86151	4.0442	7.96084
29200	29336	307.500	1.4717	0.21739	6.9765	4.93947	4.0462	7.96214
29300	29437	308.233	1.4723	0.22320	7.0457	5.01859	4.0482	7.96344
29400	29538	309.000	1.4728	0.22926	7.1134	5.09892	4.0502	7.96474
29500	29639	309.800	1.4733	0.23557	7.1806	5.18045	4.0522	7.96604
29600	29740	310.633	1.4739	0.24213	7.2464	5.26315	4.0542	7.96734
29700	29841	311.500	1.4744	0.24894	7.3109	5.34699	4.0562	7.96864
29800	29942	312.400	1.4750	0.25600	7.3742	5.43196	4.0582	7.96994
29900	30043	313.334	1.4755	0.26331	7.4363	5.51805	4.0602	7.97124
30000	30144	314.300	1.4760	0.27087	7.4972	5.60525	4.0622	7.97254
30100	30245	315.300	1.4764	0.27868	7.5570	5.69355	4.0642	7.97384
30200	30346	316.333	1.4771	0.28674	7.6157	5.78294	4.0662	7.97514
30300	30447	317.400	1.4777	0.29505	7.6734	5.87341	4.0682	7.97644
30400	30548	318.500	1.4782	0.30361	7.7291	5.96496	4.0702	7.97774
30500	30649	319.633	1.4787	0.31242	7.7838	6.05760	4.0722	7.97904
30600	30750	320.800	1.4793	0.32148	7.8375	6.15133	4.0742	7.98034
30700	30851	322.000	1.4799	0.33079	7.8902	6.24615	4.0762	7.98164
30800	30952	323.233	1.4805	0.34035	7.9420	6.34205	4.0782	7.98294
30900	31053	324.500	1.4809	0.35016	7.9929	6.43903	4.0802	7.98424
31000	31154	325.800	1.4816	0.36021	8.0429	6.53709	4.0822	7.98554
31100	31255	327.133	1.4820	0.37050	8.0920	6.63624	4.0842	7.98684
31200	31356	328.500	1.4825	0.38103	8.1402	6.73648	4.0862	7.98814
31300	31457	329.900	1.4830	0.39180	8.1875	6.83781	4.0882	7.98944
31400	31558	331.333	1.4836	0.40281	8.2340	6.94023	4.0902	7.99074
31500	31659	332.800	1.4841	0.41406	8.2797	7.04374	4.0922	7.99204
31600	31760	334.300	1.4844	0.42555	8.3247	7.14834	4.0942	7.99334
31700	31861	335.833	1.4848	0.43728	8.3690	7.25403	4.0962	7.99464
31800	31962	337.400	1.4852	0.44925	8.4127	7.36081	4.0982	7.99594
31900	32063	339.000	1.4857	0.46146	8.4558	7.46868	4.1002	7.99724
32000	32164	340.633	1.4863	0.47391	8.4983	7.57764	4.1022	7.99854
32100	32265	342.300	1.4868	0.48660	8.5402	7.68769	4.1042	7.99984
32200	32366	344.000	1.4873	0.49953	8.5815	7.79884	4.1062	8.00114
32300	32467	345.733	1.4878	0.51270	8.6222	7.91009	4.1082	8.00244
32400	32568	347.500	1.4883	0.52611	8.6623	8.02244	4.1102	8.00374
32500	32669	349.300	1.4888	0.53976	8.7018	8.13589	4.1122	8.00504
32600	32770	351.133	1.4893	0.55365	8.7407	8.25044	4.1142	8.00634
32700	32871	353.000	1.4898	0.56778	8.7791	8.36609	4.1162	8.00764
32800	32972	354.900	1.4903	0.58215	8.8170	8.48284	4.1182	8.00894
32900	33073	356.833	1.4908	0.59676	8.8544	8.60069	4.1202	8.01024
33000	33174	358.800	1.4913	0.61161	8.8913	8.71964	4.1222	8.01154
33100	33275	360.800	1.4918	0.62670	8.9278	8.83969	4.1242	8.01284
33200	33376	362.833	1.4923	0.64203	8.9639	8.96084	4.1262	8.01414
33300	33477	364.900	1.4928	0.65760	8.9995	9.08309	4.1282	8.01544
33400	33578	367.000	1.4933	0.67341	9.0347	9.20644	4.1302	8.01674
33500	33679	369.133	1.4938	0.68946	9.0695	9.33089	4.1322	8.01804
33600	33780	371.300	1.4943	0.70575	9.1039	9.45644	4.1342	8.01934
33700	33881	373.500	1.4948	0.72228	9.1379	9.58309	4.1362	8.02064
33800	33982	375.733	1.4953	0.73905	9.1715	9.71084	4.1382	8.02194
33900	34083	378.000	1.4958	0.75606	9.2047	9.83969	4.1402	8.02324
34000	34184	380.300	1.4963	0.77331	9.2375	9.96964	4.1422	8.02454
34100	34285	382.633	1.4968	0.79080	9.2699	10.10069	4.1442	8.02584
34200	34386	385.000	1.4973	0.80853	9.3020	10.23284	4.1462	8.02714
34300	34487	387.400	1.4978	0.82650	9.3337	10.36609	4.1482	8.02844
34400	34588	389.833	1.4983	0.84471	9.3651	10.50044	4.1502	8.02974
34500	34689	392.300	1.4988	0.86316	9.3962	10.63589	4.1522	8.03104
34600	34790	394.800	1.4993	0.88185	9.4270	10.77244	4.1542	8.03234
34700	34891	397.333	1.4998	0.90078	9.4575	10.91009	4.1562	8.03364
34800	34992	400.000	1.5003	0.92005	9.4878	11.04884	4.1582	8.03494
34900	35093	402.700	1.5008	0.93956	9.5179	11.18869	4.1602	8.03624
35000	35194	405.433	1.5013	0.95931	9.5478	11.32964	4.1622	8.03754
35100	35295	408.200	1.5018	0.97930	9.5775	11.47169	4.1642	8.03884
35200	35396	411.000	1.5023	0.99953	9.6070	11.61484	4.1662	8.04014
35300	35497	413.833	1.5028	1.02000	9.6363	11.75909	4.1682	8.04144
35400	35598	416.700	1.5033	1.04071	9.6654	11.90444	4.1702	8.04274
35500	35699	419.600	1.5038	1.06166	9.6943	12.05089	4.1722	8.04404
35600	35800	422.533	1.5043	1.08285	9.7230	12.19844	4.1742	8.04534
35700	35901	425.500	1.5048	1.10428	9.7515	12.34709	4.1762	8.04664
35800	36002	428.500	1.5053	1.12595	9.7799	12.49684	4.1782	8.04794
35900	36103	431.533	1.5058	1.14786	9.8081	12.64769	4.1802	8.04924
36000	36204	434.600	1.5063	1.16999	9.8362	12.79964	4.1822	8.05054
36100	36305	437.700	1.5068	1.19234	9.8642	12.95269	4.1842	8.05184
36200	36406	440.833	1.5073	1.21491	9.8920	13.10684	4.1862	8.05314
36300	36507	444.000	1.5078	1.23770	9.9197	13.26209	4.1882	8.05444
36400	36608	447.200	1.5083	1.26071	9.9473	13.41844	4.1902	8.05574
36500	36709	450.433	1.5088	1.28394	9.9748	13.57589	4.1922	8.05704
36600	36810	453.700	1.5093	1.30739	9.9999	13.73444	4.1942	8.05834
36700	36911	457.000	1.5098	1.33106	10.0249	13.89409	4.1962	8.05964
36800	37012	460.333	1.5103	1.35495	10.0498	14.05484	4.1982	8.06094
36900	37113	463.700	1.5108	1.37906	10.0746	14.21669	4.2002	8.06224
37000	37214	467.100	1.5113	1.40339	10.0993	14.37964	4.2022	8.06354
37100	37315	470.533	1.5118	1.42794	10.1239	14.54369	4.2042	8.06484
37200	37416	474.000	1.5123	1.45271	10.1484	14.70884	4.2062	8.06614
37300	37517	477.500	1.5128	1.47770	10.1728	14.87509	4.2082	8.06744
37400	37618	481.033	1.5133	1.50291	10.1971	15.04244	4.2102	8.06874
37500	37719	484.600	1.5138	1.52834	10.2213	15.21089	4.2122	8.07004
37600	37820	488.200	1.5143	1.55399	10.2455	15.38044	4.2142	8.07134
37700	37921	491.833	1.5148	1.57986	10.2696	15.55109	4.2162	8.07264
37800	38022	495.500	1.5153	1.60595	10.2936	15.72284	4.2182	8.07394
37900	38123	499.200	1.5158	1.63226	10.3175	15.89569	4.2202	8.07524
38000	38224	503.000	1.5163	1.65879	10.3413	16.06964	4.2222	8.07654

TABLE III. — Continued
GEOMETRIC ALTITUDE, METRIC UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, W m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
27000	26886	299.722	1.4592 - 5	0.13479 - 1	5.9405 - 4	0.49962 + 1	5.7000 - 4	7.92974 - 1
27100	26985	299.788	1.4597	0.13779	5.9406	0.49968	5.6919	7.93302
27200	27084	299.855	1.4603	0.14079	5.9420	0.50020	5.6839	7.93629
27300	27183	299.921	1.4609	0.14379	5.9434	0.50072	5.6759	7.93957
27400	27282	299.988	1.4614	0.14680	5.9448	0.50124	5.6679	7.94285
27500	27382	300.054	1.4619	0.14980	5.9462	0.50176	5.6599	7.94612
27600	27481	300.120	1.4624	0.15280	5.9475	0.50228	5.6519	7.94939
27700	27580	300.187	1.4630	0.15580	5.9489	0.50280	5.6439	7.95267
27800	27679	300.253	1.4635	0.15880	5.9503	0.50332	5.6359	7.95594
27900	27778	300.319	1.4640	0.16180	5.9516	0.50384	5.6279	7.95922
28000	27877	300.386	1.4644 - 5	0.16480 - 1	5.9530 - 4	0.50435 + 1	5.6199 - 4	7.96249 - 1
28100	27976	300.452	1.4651	0.16780	5.9544	0.50487	5.6119	7.96576
28200	28075	300.518	1.4656	0.17080	5.9558	0.50539	5.6039	7.96903
28300	28173	300.585	1.4662	0.17380	5.9572	0.50591	5.5959	7.97230
28400	28274	300.651	1.4667	0.17680	5.9586	0.50643	5.5879	7.97557
28500	28373	300.717	1.4673	0.17980	5.9600	0.50695	5.5799	7.97885
28600	28472	300.783	1.4678	0.18280	5.9614	0.50747	5.5719	7.98212
28700	28571	300.850	1.4683	0.18580	5.9628	0.50799	5.5639	7.98539
28800	28670	300.916	1.4689	0.18880	5.9642	0.50851	5.5559	7.98866
28900	28769	300.982	1.4694	0.19180	5.9656	0.50903	5.5479	7.99193
29000	28868	301.048	1.4699 - 5	0.19480 - 1	5.9670 - 4	0.50955 + 1	5.5399 - 4	7.99519 - 1
29100	28967	301.114	1.4705	0.19780	5.9684	0.51007	5.5319	7.99846
29200	29066	301.180	1.4710	0.20080	5.9698	0.51059	5.5239	8.00173
29300	29165	301.246	1.4715	0.20380	5.9712	0.51111	5.5159	8.00500
29400	29265	301.312	1.4721	0.20680	5.9726	0.51163	5.5079	8.00827
29500	29364	301.379	1.4726	0.20980	5.9740	0.51215	5.4999	8.01153
29600	29463	301.445	1.4731	0.21280	5.9754	0.51267	5.4919	8.01480
29700	29562	301.511	1.4737	0.21580	5.9768	0.51319	5.4839	8.01806
29800	29661	301.577	1.4742	0.21880	5.9782	0.51371	5.4759	8.02133
29900	29760	301.643	1.4747	0.22180	5.9796	0.51423	5.4679	8.02460
30000	29859	301.709	1.4753 - 5	0.22480 - 1	5.9810 - 4	0.51475 + 1	5.4599 - 4	8.02786 - 1
30100	29958	301.775	1.4758	0.22780	5.9824	0.51527	5.4519	8.03112
30200	30057	301.841	1.4763	0.23080	5.9838	0.51579	5.4439	8.03439
30300	30156	301.907	1.4769	0.23380	5.9852	0.51631	5.4359	8.03765
30400	30255	301.972	1.4774	0.23680	5.9866	0.51683	5.4279	8.04092
30500	30354	302.038	1.4779	0.23980	5.9880	0.51735	5.4199	8.04418
30600	30453	302.104	1.4785	0.24280	5.9894	0.51787	5.4119	8.04745
30700	30552	302.170	1.4790	0.24580	5.9908	0.51839	5.4039	8.05071
30800	30651	302.236	1.4795	0.24880	5.9922	0.51891	5.3959	8.05398
30900	30751	302.302	1.4801	0.25180	5.9936	0.51943	5.3879	8.05724
31000	30850	302.368	1.4806 - 5	0.25480 - 1	5.9950 - 4	0.51995 + 1	5.3799 - 4	8.06050 - 1
31100	30949	302.433	1.4811	0.25780	5.9964	0.52047	5.3719	8.06376
31200	31048	302.499	1.4817	0.26080	5.9978	0.52099	5.3639	8.06703
31300	31147	302.565	1.4822	0.26380	5.9992	0.52151	5.3559	8.07029
31400	31246	302.631	1.4827	0.26680	5.9996	0.52203	5.3479	8.07356
31500	31345	302.696	1.4833	0.26980	6.0000	0.52255	5.3399	8.07682
31600	31444	302.762	1.4838	0.27280	6.0004	0.52307	5.3319	8.08008
31700	31543	302.828	1.4843	0.27580	6.0008	0.52359	5.3239	8.08335
31800	31642	302.893	1.4849	0.27880	6.0012	0.52411	5.3159	8.08661
31900	31741	302.959	1.4854	0.28180	6.0016	0.52463	5.3079	8.08988
32000	31840	303.025	1.4859 - 5	0.28480 - 1	6.0030 - 4	0.52515 + 1	5.2999 - 4	8.09314 - 1
32100	31939	303.091	1.4864	0.28780	6.0044	0.52567	5.2919	8.09640
32200	32038	303.157	1.4869	0.29080	6.0058	0.52619	5.2839	8.09967
32300	32137	303.223	1.4875	0.29380	6.0072	0.52671	5.2759	8.10293
32400	32236	303.289	1.4880	0.29680	6.0086	0.52723	5.2679	8.10620
32500	32335	303.355	1.4886	0.29980	6.0100	0.52775	5.2599	8.10946
32600	32434	303.421	1.4891	0.30280	6.0114	0.52827	5.2519	8.11273
32700	32533	303.487	1.4896	0.30580	6.0128	0.52879	5.2439	8.11599
32800	32632	303.553	1.4902	0.30880	6.0142	0.52931	5.2359	8.11926
32900	32731	303.619	1.4907	0.31180	6.0156	0.52983	5.2279	8.12252
33000	32830	303.685	1.4913	0.31480	6.0170	0.53035	5.2199	8.12579
33100	32929	303.751	1.4918	0.31780	6.0184	0.53087	5.2119	8.12905
33200	33028	303.817	1.4924	0.32080	6.0198	0.53139	5.2039	8.13232
33300	33127	303.883	1.4929	0.32380	6.0212	0.53191	5.1959	8.13558
33400	33226	303.949	1.4935	0.32680	6.0226	0.53243	5.1879	8.13885
33500	33325	304.015	1.4940	0.32980	6.0240	0.53295	5.1799	8.14211
33600	33424	304.081	1.4946	0.33280	6.0254	0.53347	5.1719	8.14538
33700	33523	304.147	1.4951	0.33580	6.0268	0.53399	5.1639	8.14864
33800	33622	304.213	1.4957	0.33880	6.0282	0.53451	5.1559	8.15191
33900	33721	304.279	1.4962	0.34180	6.0296	0.53503	5.1479	8.15517
34000	33820	304.345	1.4968 - 5	0.34480 - 1	6.0310 - 4	0.53555 + 1	5.1399 - 4	8.15843 - 1
34100	33919	304.411	1.4973	0.34780	6.0324	0.53607	5.1319	8.16170
34200	34018	304.477	1.4979	0.35080	6.0338	0.53659	5.1239	8.16496
34300	34117	304.543	1.4984	0.35380	6.0352	0.53711	5.1159	8.16823
34400	34216	304.609	1.4990	0.35680	6.0366	0.53763	5.1079	8.17149
34500	34315	304.675	1.4995	0.35980	6.0380	0.53815	5.0999	8.17476
34600	34414	304.741	1.5001	0.36280	6.0394	0.53867	5.0919	8.17802
34700	34513	304.807	1.5006	0.36580	6.0408	0.53919	5.0839	8.18129
34800	34612	304.873	1.5012	0.36880	6.0422	0.53971	5.0759	8.18455
34900	34711	304.939	1.5017	0.37180	6.0436	0.54023	5.0679	8.18782
35000	34810	305.005	1.5023	0.37480	6.0450	0.54075	5.0599	8.19108
35100	34909	305.071	1.5028	0.37780	6.0464	0.54127	5.0519	8.19435
35200	35008	305.137	1.5034	0.38080	6.0478	0.54179	5.0439	8.19761
35300	35107	305.203	1.5039	0.38380	6.0492	0.54231	5.0359	8.20088
35400	35206	305.269	1.5045	0.38680	6.0506	0.54283	5.0279	8.20414
35500	35305	305.335	1.5050	0.38980	6.0520	0.54335	5.0199	8.20741
35600	35404	305.401	1.5056	0.39280	6.0534	0.54387	5.0119	8.21067
35700	35503	305.467	1.5061	0.39580	6.0548	0.54439	5.0039	8.21394
35800	35602	305.533	1.5067	0.39880	6.0562	0.54491	4.9959	8.21720
35900	35701	305.599	1.5072	0.40180	6.0576	0.54543	4.9879	8.22047
36000	35800	305.665	1.5078 - 5	0.40480 - 1	6.0590 - 4	0.54595 + 1	4.9799 - 4	8.22373 - 1
36100	35899	305.731	1.5083	0.40780	6.0604	0.54647	4.9719	8.22700
36200	35998	305.797	1.5089	0.41080	6.0618	0.54699	4.9639	8.23026
36300	36097	305.863	1.5094	0.41380	6.0632	0.54751	4.9559	8.23353
36400	36196	305.929	1.5100	0.41680	6.0646	0.54803	4.9479	8.23679
36500	36295	305.995	1.5105	0.41980	6.0660	0.54855	4.9399	8.24006
36600	36394	306.061	1.5111	0.42280	6.0674	0.54907	4.9319	8.24332
36700	36493	306.127	1.5116	0.42580	6.0688	0.54959	4.9239	8.24659
36800	36592	306.193	1.5122	0.42880	6.0702	0.55011	4.9159	8.24985
36900	36691	306.259	1.5127	0.43180	6.0716	0.55063	4.9079	8.25312
37000	36790	306.325	1.5133	0.43480	6.0730	0.55115	4.8999	8.25638
37100	36889	306.391	1.5138	0.43780	6.0744	0.55167	4.8919	8.25965
37200	36988	306.457	1.5144	0.44080	6.0758	0.55219	4.8839	8.26291
37300	37087	306.523	1.5149	0.44380	6.0772	0.55271	4.8759	8.26618
37400	37186	306.589	1.5155	0.44680	6.0786	0.55323	4.8679	8.26944
37500	37285	306.655	1.5160	0.44980	6.0800	0.55375	4.8599	8.27271
37600	37384	306.721	1.5166	0.45280	6.0814	0.55427	4.8519	8.27597
37700	37483	306.787	1.5171	0.45580	6.0828	0.55479	4.8439	8.27924
37800	37582	306.853	1.5177	0.45880	6.0842	0.55531	4.8359	8.28250
37900	37681	306.919	1.5182	0.46180	6.0856	0.55583	4.8279	8.28577
38000	37780	306.985	1.5188	0.46480	6.0870	0.55635	4.8199	8.28903

TABLE III - Continued
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, k-cal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
38000	37774	313.665	1.5723 - 5	8.78667 - 1	2.9246 - 5	2.00369 + 2	5.2213 - 6	0.62599 - 1
38200	37772	316.010	1.5751	8.80277	3.0239	2.07016	5.2322	0.64398
38400	38169	316.373	1.5780	8.81886	3.1209	2.13653	5.2430	0.66161
38600	38367	316.727	1.5809	8.83490	3.2207	2.20487	5.2538	0.67970
38800	38565	315.080	1.5838	8.85094	3.3195	2.27523	5.2647	0.69758
39000	38762	315.432	1.5866	8.86697	3.4203	2.34766	5.2755	0.71544
39200	38960	315.785	1.5895	8.88299	3.5207	2.42222	5.2863	0.73331
39400	39157	316.136	1.5924	8.89897	3.6203	2.49887	5.2971	0.75116
39600	39355	316.486	1.5952	8.91494	3.7207	2.57797	5.3079	0.76900
39800	39552	316.839	1.5981	8.93090	3.8204	2.65926	5.3187	0.78683
40000	39750	317.189	1.6009 - 5	8.94683 - 1	4.0067 - 5	2.76263 + 2	5.3295 - 6	0.80465 - 1
40200	39947	317.539	1.6038	8.96275	4.1324	2.82983	5.3403	0.82246
40400	40145	317.889	1.6066	8.97866	4.2618	2.91762	5.3510	0.84026
40600	40342	318.236	1.6095	8.99455	4.3950	3.00877	5.3618	0.85806
40800	40540	318.587	1.6122	9.01047	4.5326	3.10255	5.3725	0.87582
41000	40737	318.934	1.6151	9.02627	4.6729	3.19966	5.3833	0.89359
41200	40935	319.286	1.6180	9.04211	4.8179	3.29829	5.3941	0.91134
41400	41132	319.632	1.6208	9.05793	4.9670	3.40030	5.4048	0.92908
41600	41329	319.979	1.6236	9.07373	5.1204	3.50580	5.4155	0.94683
41800	41527	320.326	1.6265	9.08951	5.2762	3.61361	5.4263	0.96458
42000	41724	320.672	1.6293 - 5	9.10528 - 1	5.4404 - 5	3.72669 + 2	5.4370 - 6	0.98225 - 1
42200	41922	321.018	1.6321	9.12106	5.6073	3.83872	5.4477	0.99995
42400	42119	321.366	1.6349	9.13677	5.7769	3.95619	5.4584	0.01766
42600	42316	321.709	1.6377	9.15249	5.9553	4.07698	5.4691	0.03522
42800	42514	322.054	1.6405	9.16820	6.1367	4.20117	5.4798	0.05299
43000	42711	322.399	1.6433	9.18388	6.3233	4.32884	5.4905	0.07065
43200	42908	322.743	1.6461	9.19955	6.5150	4.46013	5.5012	0.08829
43400	43106	323.087	1.6489	9.21520	6.7121	4.59507	5.5118	0.10593
43600	43303	323.430	1.6517	9.23086	6.9167	4.73379	5.5225	0.12356
43800	43500	323.773	1.6545	9.24646	7.1230	4.87637	5.5332	0.14117
44000	43697	324.116	1.6573 - 5	9.26207 - 1	7.3371 - 5	5.02292 + 2	5.5438 - 6	0.15878 - 1
44200	43895	324.458	1.6601	9.27745	7.5571	5.17355	5.5545	0.17638
44400	44092	324.800	1.6629	9.29281	7.7832	5.32831	5.5651	0.19393
44600	44289	325.141	1.6657	9.30808	8.0155	5.48737	5.5758	0.21153
44800	44486	325.482	1.6685	9.32332	8.2563	5.65081	5.5864	0.22910
45000	44684	325.823	1.6713	9.33856	8.4994	5.81875	5.5970	0.24665
45200	44881	326.163	1.6740	9.35375	8.7516	5.99129	5.6076	0.26419
45400	45078	326.503	1.6768	9.37008	9.0105	6.16856	5.6183	0.28172
45600	45275	326.843	1.6796	9.38632	9.2764	6.35089	5.6289	0.29926
45800	45472	327.182	1.6823	9.40257	9.5498	6.53775	5.6395	0.31675
46000	45669	327.521	1.6851 - 5	9.41772 - 1	9.8305 - 5	6.72992 + 2	5.6501 - 6	0.33425 - 1
46200	45867	327.859	1.6879	9.43284	1.0119 - 2	6.92730	5.6606	0.35174
46400	46064	328.198	1.6906	9.44806	1.0415	7.13052	5.6712	0.36922
46600	46261	328.535	1.6934	9.46345	1.0719	7.33823	5.6818	0.38669
46800	46458	328.873	1.6961	9.47883	1.1031	7.55024	5.6924	0.40415
47000	46655	329.210	1.6989	9.49419	1.1352	7.77181	5.7029	0.42159
47200	46852	329.546	1.7016	9.50954	1.1681	7.99707	5.7135	0.43903
47400	47049	329.799	1.7037	9.52105	1.2009	8.22111	5.7216	0.45641
47600	47246	329.799	1.7037	9.52105	1.2311	8.42815	5.7216	0.45211
47800	47443	329.799	1.7037	9.52105	1.2621	8.64039	5.7216	0.45211
48000	47640	329.799	1.7037 - 5	9.52105 - 1	1.2939 - 2	8.85796 + 2	5.7216 - 6	0.45211 - 1
48200	47837	329.799	1.7037	9.52105	1.3245	9.08100	5.7216	0.45211
48400	48034	329.799	1.7037	9.52105	1.3599	9.30946	5.7216	0.45211
48600	48231	329.799	1.7037	9.52105	1.3961	9.54602	5.7216	0.45211
48800	48428	329.799	1.7037	9.52105	1.4292	9.78628	5.7216	0.45211
49000	48625	329.799	1.7037	9.52105	1.4652	1.00306 + 3	5.7216	0.45211
49200	48822	329.799	1.7037	9.52105	1.5021	1.02831	5.7216	0.45211
49400	49019	329.799	1.7037	9.52105	1.5399	1.05619	5.7216	0.45211
49600	49216	329.799	1.7037	9.52105	1.5786	1.08672	5.7216	0.45211
49800	49413	329.799	1.7037	9.52105	1.6186	1.10792	5.7216	0.45211
50000	49610	329.799	1.7037 - 5	9.52105 - 1	1.6591 - 2	1.13580 + 3	5.7216 - 6	0.45211 - 1
50200	50007	329.799	1.7037	9.52105	1.7034	1.20860	5.7216	0.45211
50400	50204	329.799	1.7037	9.52105	1.7586	1.28604	5.7216	0.45211
50600	50401	329.799	1.7037	9.52105	1.8189	1.36866	5.7216	0.45211
50800	50598	329.799	1.7037	9.52105	2.1270	1.45616	5.7216	0.45211
51000	50795	329.713	1.7030	9.51717	2.2612	1.54798	5.7187	0.44770
51200	50992	329.114	1.6981	9.48981	2.3907	1.63666	5.6999	0.44162
51400	51189	328.513	1.6932	9.46261	2.5281	1.73076	5.6811	0.43551
51600	51386	327.911	1.6883	9.43547	2.6740	1.83059	5.6622	0.42938
51800	51583	327.308	1.6834	9.40749	2.8288	1.93658	5.6436	0.42323
52000	51780	326.703	1.6784 - 5	9.37994 - 1	2.9932 - 2	2.04910 + 3	5.6245 - 6	0.41705 - 1
52200	51977	326.098	1.6735	9.35239	3.1677	2.16859	5.6056	0.41086
52400	52174	325.492	1.6686	9.32478	3.3531	2.29551	5.5867	0.40461
52600	52371	324.885	1.6636	9.29712	3.5500	2.43036	5.5678	0.39835
52800	52568	324.277	1.6587	9.26941	3.7593	2.57381	5.5489	0.39207
53000	52765	323.668	1.6537	9.24167	3.9810	2.72589	5.5299	0.38577
53200	52962	323.058	1.6487	9.21388	4.2182	2.88776	5.5109	0.37946
53400	53159	322.446	1.6437	9.18604	4.4694	3.05988	5.4920	0.37308
53600	53356	321.834	1.6387	9.15816	4.7370	3.24293	5.4730	0.36670
53800	53553	321.220	1.6337	9.13024	5.0216	3.43745	5.4540	0.36029

TABLE III. — Concluded
GEOPHYSICAL ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, m	Z, m	C _s , m sec ⁻¹	μ , kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, kcal m ⁻¹ sec ⁻¹ °K ⁻¹	$\frac{k}{k_0}$
60000	60572	319.902	1.4230 - 5	9.07023 - 1	5.4961 - 2	3.09910 + 3	5.4132 - 6	8.96200 - 1
60500	61001	319.273	1.4172	9.04162	5.4649	3.13960	5.3937	8.91079
61000	61591	318.643	1.4120	9.01296	5.4251	3.19720	5.3743	8.87867
61500	62101	317.379	1.4025	8.95549	5.3763	3.23902	5.3553	8.84631
62000	62611	316.111	1.3922	8.89780	5.3519	3.28417	5.3293	8.81406
62500	63121	314.837	1.3810	8.83990	5.3516	3.31675	5.2572	8.78227
63000	63631	313.558	1.3710	8.78179	5.3769	3.40065	5.2180	8.75056
63500	64141	312.273	1.3610	8.72367	5.4299	3.57708	5.1768	8.71885
64000	64651	310.984	1.3505	8.66493	5.5126	3.77051	5.1395	8.68714
64500	65161	309.689	1.3400	8.60606	5.6271	3.99376	5.1001	8.65546
65000	65672	308.388	1.3294 - 5	8.54718 - 1	5.6760 - 2	4.02948 + 3	5.0606 - 6	8.62385 - 1
65500	66181	307.093	1.3188	8.48797	5.6562 - 1	4.23042	5.0211	8.59211
66000	66691	305.771	1.3082	8.42853	5.6187	4.45852	4.9816	8.55966
66500	67201	304.454	1.2975	8.36907	5.5807	4.71157	4.9417	8.52710
67000	67711	303.131	1.2868	8.30999	5.5409	4.98473	4.9020	8.49464
67500	68221	301.802	1.2760	8.25086	5.5355	5.27777	4.8621	8.46218
68000	68735	300.466	1.2652	8.19151	5.5150	5.59707	4.8227	8.42973
68500	69246	299.127	1.2544	8.13192	5.5025	5.92962 + 4	4.7822	8.39728
69000	69757	297.784	1.2435	8.07210	5.4963	6.27421	4.7421	8.36483
69500	70268	296.428	1.2326	8.01203	5.4968	6.63161	4.7019	8.33238
70000	70780	295.069	1.2216 - 5	7.95172 - 1	5.4966 - 1	6.99463 + 4	4.6617 - 6	8.30002 - 1
70500	71291	293.704	1.2106	7.89117	5.49203	7.36466	4.6214	8.26767
71000	71802	292.333	1.1995	7.83138	5.4846	7.74975	4.5810	8.23532
71500	72314	290.955	1.1884	7.77133	5.4782	8.14121	4.5406	8.20297
72000	72825	289.570	1.1773	7.71104	5.4719	8.53958	4.5001	8.17062
72500	73337	288.179	1.1661	7.65049	5.4666	8.94543	4.4595	8.13827
73000	73848	286.781	1.1549	7.58969	5.4631	9.35944	4.4188	8.10592
73500	74360	285.376	1.1436	7.52864	5.4625	9.78225	4.3781	8.07357
74000	74872	283.965	1.1323	7.46732	5.4611	10.21486	4.3373	8.04122
74500	75384	282.546	1.1209	7.40574	5.4250	10.65780	4.2964	8.00887
75000	75896	281.12	1.1094 - 5	7.34379 - 1	5.451 - 1	11.1112 + 4	4.255 - 6	7.97652 - 1
75500	76408	279.69	1.098	7.28238	5.494	11.5792	4.214	7.94417
76000	76920	278.25	1.086	7.22094	5.498	12.0598	4.173	7.91182
76500	77432	276.80	1.075	7.15944	5.494	12.5453	4.132	7.87947
77000	77944	275.34	1.063	7.09799	5.453	13.0367	4.091	7.84712
77500	78457	273.88	1.052	7.03647	5.489	13.5340	4.050	7.81477
78000	78969	272.41	1.040	6.97492	5.253	14.0372	4.008	7.78242
78500	79482	270.93	1.028	6.91335	5.448	14.5468	3.967	7.75007
79000	79994	269.44	1.016	6.85174	5.478	15.0621	3.925	7.71772
79500	80507	267.94	1.004	6.79014	5.481	15.5838	3.925	7.68537
80000	81020	266.44	1.016 - 5	6.72774 - 1	5.344 - 1	16.1112 + 4	3.925 - 6	7.65302 - 1
80500	81533	264.94	1.016	6.66574	5.072	16.6459	3.925	7.62067
81000	82046	263.44	1.016	6.60374	5.072	17.1827	3.925	7.58832
81500	82559	261.94	1.016	6.54174	5.072	17.7217	3.925	7.55597
82000	83072	260.44	1.016	6.47974	5.072 + 0	18.2627	3.925	7.52362
82500	83585	258.94	1.016	6.41774	5.178	18.8057	3.925	7.49127
83000	84098	257.44	1.016	6.35574	5.295	19.3507	3.925	7.45892
83500	84612	255.94	1.016	6.29374	5.424	19.8977	3.925	7.42657
84000	85125	254.44	1.016	6.23174	5.565	20.4467	3.925	7.39422
84500	85639	252.94	1.016	6.16974	5.720	20.9977	3.925	7.36187
85000	86152	251.44	1.016 - 5	6.10774 - 1	5.890 + 0	21.5507	3.925 - 6	7.32952 - 1
85500	86665	249.94	1.016	6.04574	6.078	22.1057	3.925	7.29717
86000	87178	248.44	1.016	5.98374	6.284	22.6627	3.925	7.26482
86500	87691	246.94	1.016	5.92174	6.510	23.2217	3.925	7.23247
87000	88204	245.44	1.016	5.85974	6.759	23.7827	3.925	7.20012
87500	88717	243.94	1.016	5.79774	7.033	24.3457	3.925	7.16777
88000	89230	242.44	1.016	5.73574	7.334	24.9107	3.925	7.13542
88500	89743	240.94	1.016	5.67374	7.665	25.4777	3.925	7.10307
89000	90256	239.44	1.016	5.61174	8.041	26.0467	3.925	7.07072
89500	90769	237.94	1.016	5.54974	8.451	26.6177	3.925	7.03837
90000	91282	236.44	1.016 - 5	5.48774 - 1	8.896 + 0	27.1907	3.925 - 6	7.00602 - 1

TABLE III — Concluded
GEOMETRIC ALTITUDE, METRIC UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, m	H, m	C _s , m sec ⁻¹	μ, kg m ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η, m ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, k-cal m ⁻¹ sec ⁻¹ (°K) ⁻¹	$\frac{k}{k_0}$
60000	59439	320.606	1.6287 - 5	9.10227 - 1	5.3241 - 2	3.64484 + 3	5.4349 - 6	6.97886 - 1
60500	59330	319.990	1.6237	9.07425	5.6462	3.66533	5.4159	6.94740
61000	60420	319.374	1.6187	9.04619	5.9890	4.10004	5.3968	6.91592
61500	60911	318.756	1.6137	9.01709	6.3541	4.34994	5.3778	6.88441
62000	61401	317.630	1.6045	8.96488	6.7047	4.58998	5.3431	6.82707
62500	61891	316.387	1.5944	8.91035	7.0684	4.83995	5.3048	6.76388
63000	62382	315.139	1.5843	8.85365	7.4547	5.10345	5.2665	6.70057
63500	62872	313.886	1.5741	8.79671	7.8653	5.38457	5.2281	6.63716
64000	63362	312.628	1.5638	8.73959	8.3020	5.68350	5.1894	6.57363
64500	63852	311.366	1.5536	8.68227	8.7665	6.00151	5.1511	6.50999
65000	64342	310.099	1.5433 - 5	8.62476 - 1	9.2609 - 2	6.33998 + 3	5.1125 - 6	6.44625 - 1
65500	64832	308.826	1.5330	8.56703	9.7874	6.70042	5.0739	6.38239
66000	65322	307.549	1.5226	8.50911	1.0348 - 1	7.08442	5.0352	6.31842
66500	65811	306.266	1.5122	8.45098	1.0946	7.49374	4.9964	6.25454
67000	66301	304.979	1.5018	8.39264	1.1584	7.93027	4.9575	6.19016
67500	66791	303.686	1.4913	8.33409	1.2264	8.39607	4.9168	6.12587
68000	67280	302.387	1.4808	8.27533	1.2991	8.89335	4.8796	6.06147
68500	67770	301.084	1.4702	8.21635	1.3767	9.42453	4.8406	5.99695
69000	68259	299.774	1.4596	8.15716	1.4596	9.99222	4.8015	5.93233
69500	68748	298.460	1.4490	8.09775	1.5483	1.05993 + 4	4.7623	5.86760
70000	69237	297.139	1.4383 - 5	8.03813 - 1	1.6431 - 1	1.12488 + 4	4.7230 - 6	5.80276 - 1
70500	69727	295.813	1.4276	7.97828	1.7447	1.19442	4.6837	5.73782
71000	70216	294.482	1.4169	7.91821	1.8535	1.26890	4.6443	5.67276
71500	70705	293.144	1.4061	7.85792	1.9701	1.34874	4.6049	5.60760
72000	71193	291.800	1.3953	7.79740	2.0952	1.43436	4.5654	5.54234
72500	71682	290.451	1.3844	7.73665	2.2294	1.52625	4.5258	5.47696
73000	72171	289.095	1.3735	7.67567	2.3736	1.62492	4.4862	5.41148
73500	72660	287.733	1.3625	7.61446	2.5284	1.73094	4.4465	5.34590
74000	73148	286.365	1.3515	7.55301	2.6949	1.84493	4.4067	5.28021
74500	73637	284.991	1.3405	7.49133	2.8741	1.96757	4.3669	5.21442
75000	74125	283.61	1.329 - 5	7.4294 - 1	3.067 - 1	2.0996 + 4	4.327 - 6	5.1485 - 1
75500	74614	282.22	1.318	7.3673	3.275	2.2419	4.287	5.0825
76000	75102	280.83	1.307	7.3049	3.499	2.3952	4.247	5.0164
76500	75590	279.43	1.296	7.2422	3.741	2.5607	4.207	4.9502
77000	76078	278.02	1.285	7.1793	4.001	2.7394	4.167	4.8839
77500	76566	276.61	1.273	7.1162	4.283	2.9324	4.127	4.8175
78000	77054	275.18	1.262	7.0528	4.588	3.1412	4.086	4.7510
78500	77542	273.76	1.251	6.9891	4.918	3.3671	4.046	4.6844
79000	78030	272.32	1.239	6.9253	5.276	3.6117	4.006	4.6177
79500	78518	270.88	1.228	6.8611	5.663	3.8769	3.965	4.5509
80000	79006	269.44	1.216 - 5	6.7974 - 1	6.085 - 1	4.1655 + 4	3.925 - 6	4.4848 - 1
80500	79493	269.44	1.216	6.7974	6.672	4.5679	3.925	4.4848
81000	79981	269.44	1.216	6.7974	7.317	5.0090	3.925	4.4848
81500	80468	269.44	1.216	6.7974	8.023	5.4927	3.925	4.4848
82000	80956	269.44	1.216	6.7974	8.798	6.0231	3.925	4.4848
82500	81443	269.44	1.216	6.7974	9.647	6.6045	3.925	4.4848
83000	81930	269.44	1.216	6.7974	1.058 + 0	7.2420	3.925	4.4848
83500	82417	269.44	1.216	6.7974	1.160	7.9409	3.925	4.4848
84000	82904	269.44	1.216	6.7974	1.272	8.7071	3.925	4.4848
84500	83391	269.44	1.216	6.7974	1.395	9.5470	3.925	4.4848
85000	83878	269.44	1.216 - 5	6.7974 - 1	1.529 + 0	1.0468 + 5	3.925 - 6	4.4848 - 1
85500	84365	269.44	1.216	6.7974	1.677	1.1477	3.925	4.4848
86000	84852	269.44	1.216	6.7974	1.838	1.2584	3.925	4.4848
86500	85339	269.44	1.216	6.7974	2.015	1.3797	3.925	4.4848
87000	85825	269.44	1.216	6.7974	2.210	1.5127	3.925	4.4848
87500	86312	269.44	1.216	6.7974	2.423	1.6585	3.925	4.4848
88000	86798	269.44	1.216	6.7974	2.656	1.8184	3.925	4.4848
88500	87285	269.44	1.216	6.7974	2.912	1.9936	3.925	4.4848
89000	87771	269.44	1.216	6.7974	3.193	2.1856	3.925	4.4848
89500	88257	269.44	1.216	6.7974	3.500	2.3961	3.925	4.4848
90000	88743	269.44	1.216 - 5	6.7974 - 1	3.837 + 0	2.6268 + 5	3.925 - 6	4.4848 - 1

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Table IV
TEMPERATURE, PRESSURE, AND DENSITY
English Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE IV
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
M, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
-16500	-16487	577.512	117.842	47.690	1.78241 + 5	5.26344 + 1	1.75910 + 0	1.2002 - 1	1.5799 + 0
-16400	-16387	577.155	117.485	47.492	1.77643	5.24638	1.75340	1.2050	1.5757
-16300	-16287	576.798	117.128	47.294	1.77047	5.22934	1.74771	1.2019	1.5716
-16200	-16187	576.442	116.772	47.095	1.76512	5.21239	1.74204	1.1987	1.5676
-16100	-16088	576.085	116.415	46.897	1.75949	5.19547	1.73638	1.1955	1.5633
-16000	-15988	575.729	116.059	46.699	1.75367 + 5	5.17859 + 1	1.73074 + 0	1.1924 - 1	1.5592 + 0
-15900	-15888	575.372	115.702	46.501	1.74797	5.16175	1.72511	1.1893	1.5551
-15800	-15788	575.015	115.345	46.303	1.74228	5.14494	1.71946	1.1861	1.5510
-15700	-15688	574.659	114.989	46.105	1.73661	5.12821	1.71379	1.1830	1.5469
-15600	-15588	574.302	114.632	45.907	1.73095	5.11150	1.70812	1.1799	1.5428
-15500	-15488	573.945	114.275	45.709	1.72531	5.09480	1.70245	1.1768	1.5388
-15400	-15389	573.589	113.919	45.510	1.71969	5.07825	1.69678	1.1736	1.5347
-15300	-15289	573.232	113.562	45.312	1.71407	5.06165	1.69114	1.1705	1.5306
-15200	-15189	572.875	113.204	45.114	1.70848	5.04513	1.68543	1.1673	1.5264
-15100	-15089	572.519	112.847	44.916	1.70289	5.02864	1.68002	1.1644	1.5224
-15000	-14989	572.162	112.492	44.718	1.69733 + 5	5.01220 + 1	1.67513 + 0	1.1613 - 1	1.5185 + 0
-14900	-14889	571.806	112.136	44.520	1.69177	4.99580	1.66965	1.1582	1.5145
-14800	-14789	571.449	111.779	44.322	1.68623	4.97945	1.66418	1.1551	1.5105
-14700	-14689	571.093	111.423	44.124	1.68071	4.96314	1.65873	1.1521	1.5065
-14600	-14589	570.736	111.066	43.926	1.67520	4.94687	1.65330	1.1490	1.5025
-14500	-14489	570.379	110.709	43.727	1.66971	4.93065	1.64787	1.1460	1.4985
-14400	-14389	570.023	110.353	43.529	1.66423	4.91447	1.64247	1.1429	1.4945
-14300	-14289	569.666	109.996	43.331	1.65876	4.89835	1.63707	1.1399	1.4905
-14200	-14189	569.309	109.639	43.133	1.65331	4.88225	1.63169	1.1368	1.4866
-14100	-14089	568.953	109.283	42.935	1.64788	4.86618	1.62633	1.1338	1.4826
-14000	-13989	568.596	108.926	42.737	1.64244 + 5	4.85017 + 1	1.62098 + 0	1.1308 - 1	1.4786 + 0
-13900	-13889	568.240	108.570	42.539	1.63705	4.83420	1.61566	1.1278	1.4747
-13800	-13789	567.883	108.213	42.341	1.63164	4.81828	1.61032	1.1248	1.4708
-13700	-13689	567.526	107.856	42.142	1.62626	4.80240	1.60501	1.1218	1.4668
-13600	-13589	567.170	107.500	41.944	1.62091	4.78654	1.59972	1.1188	1.4629
-13500	-13489	566.813	107.143	41.746	1.61556	4.77076	1.59446	1.1158	1.4590
-13400	-13389	566.457	106.787	41.548	1.61023	4.75501	1.58917	1.1128	1.4551
-13300	-13289	566.100	106.430	41.350	1.60491	4.73929	1.58392	1.1098	1.4512
-13200	-13189	565.743	106.073	41.152	1.59960	4.72362	1.57868	1.1068	1.4473
-13100	-13089	565.387	105.717	40.954	1.59431	4.70799	1.57346	1.1039	1.4435
-13000	-12989	565.030	105.360	40.756	1.58903 + 5	4.69241 + 1	1.56825 + 0	1.1009 - 1	1.4396 + 0
-12900	-12889	564.673	105.003	40.557	1.58377	4.67666	1.56306	1.0980	1.4357
-12800	-12789	564.317	104.647	40.359	1.57852	4.66136	1.55788	1.0950	1.4319
-12700	-12689	563.960	104.290	40.161	1.57328	4.64609	1.55271	1.0921	1.4280
-12600	-12589	563.604	103.934	39.963	1.56804	4.63085	1.54755	1.0891	1.4242
-12500	-12489	563.247	103.577	39.765	1.56285	4.61510	1.54241	1.0862	1.4203
-12400	-12389	562.890	103.220	39.567	1.55766	4.59976	1.53729	1.0833	1.4165
-12300	-12289	562.533	102.864	39.369	1.55248	4.58447	1.53218	1.0804	1.4127
-12200	-12189	562.177	102.507	39.171	1.54731	4.56921	1.52708	1.0774	1.4089
-12100	-12089	561.821	102.151	38.973	1.54216	4.55400	1.52199	1.0745	1.4051
-12000	-11989	561.464	101.794	38.776	1.53702 + 5	4.53883 + 1	1.51692 + 0	1.0716 - 1	1.4013 + 0
-11900	-11889	561.107	101.437	38.578	1.53190	4.52369	1.51187	1.0687	1.3975
-11800	-11789	560.751	101.081	38.379	1.52679	4.50860	1.50682	1.0659	1.3937
-11700	-11689	560.394	100.724	38.180	1.52169	4.49355	1.50179	1.0630	1.3900
-11600	-11589	560.037	100.367	37.982	1.51661	4.47855	1.49678	1.0601	1.3862
-11500	-11489	559.681	100.011	37.784	1.51154	4.46358	1.49177	1.0572	1.3825
-11400	-11389	559.324	99.654	37.586	1.50649	4.44865	1.48679	1.0544	1.3787
-11300	-11289	558.968	99.298	37.388	1.50144	4.43376	1.48181	1.0515	1.3750
-11200	-11189	558.611	98.941	37.189	1.49642	4.41891	1.47685	1.0487	1.3713
-11100	-11089	558.254	98.584	36.991	1.49140	4.40411	1.47190	1.0458	1.3675
-11000	-10989	557.898	98.228	36.793	1.48640 + 5	4.38934 + 1	1.46696 + 0	1.0430 - 1	1.3638 + 0
-10900	-10889	557.541	97.871	36.595	1.48141	4.37461	1.46208	1.0401	1.3601
-10800	-10789	557.185	97.515	36.397	1.47644	4.35993	1.45715	1.0373	1.3564
-10700	-10689	556.828	97.158	36.199	1.47148	4.34528	1.45224	1.0345	1.3527
-10600	-10589	556.471	96.801	36.001	1.46653	4.33067	1.44736	1.0317	1.3490
-10500	-10489	556.115	96.445	35.803	1.46160	4.31611	1.44249	1.0289	1.3454
-10400	-10389	555.758	96.088	35.605	1.45668	4.30158	1.43763	1.0261	1.3417
-10300	-10289	555.401	95.731	35.406	1.45178	4.28709	1.43279	1.0233	1.3380
-10200	-10189	555.045	95.375	35.208	1.44688	4.27264	1.42796	1.0205	1.3344
-10100	-10089	554.688	95.018	35.010	1.44200	4.25826	1.42315	1.0177	1.3307
-10000	-9989	554.332	94.662	34.812	1.43714 + 5	4.24387 + 1	1.41835 + 0	1.0149 - 1	1.3271 + 0
-9900	-9889	553.975	94.305	34.614	1.43229	4.22954	1.41356	1.0121	1.3235
-9800	-9789	553.618	93.948	34.416	1.42745	4.21525	1.40870	1.0093	1.3198
-9700	-9689	553.262	93.592	34.218	1.42262	4.20099	1.40402	1.0066	1.3162
-9600	-9589	552.905	93.235	34.020	1.41781	4.18678	1.39927	1.0038	1.3126
-9500	-9489	552.549	92.879	33.821	1.41301	4.17261	1.39453	1.0011	1.3090
-9400	-9389	552.192	92.522	33.623	1.40822	4.15847	1.38981	9.9832 - 2	1.3054
-9300	-9289	551.835	92.165	33.425	1.40345	4.14438	1.38509	9.9558	1.3019
-9200	-9189	551.479	91.809	33.227	1.39869	4.13032	1.38040	9.9285	1.2983
-9100	-9089	551.122	91.452	33.029	1.39394	4.11630	1.37571	9.9012	1.2947

TABLE IX
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{\sigma}$	ρ , lb ft ⁻³	$\frac{\rho}{\sigma}$
-16500	-16515	577.558	117.000	47.716	1.78318 + 3	5.26567 + 1	1.75988 + 0	1.2006 - 1	1.5808 + 0
-16400	-16415	577.201	117.531	47.517	1.77737	5.24858	1.75413	1.2059	1.5768
-16300	-16315	576.846	117.174	47.319	1.77160	5.23153	1.74843	1.2023	1.5721
-16200	-16215	576.487	116.817	47.120	1.76584	5.21453	1.74275	1.1991	1.5680
-16100	-16112	576.130	116.460	46.922	1.76010	5.19757	1.73709	1.1959	1.5639
-16000	-16012	575.772	116.102	46.724	1.75437 + 3	5.18044 + 1	1.73145 + 0	1.1926 - 1	1.5597 + 0
-15900	-15912	575.415	115.745	46.525	1.74864	5.16379	1.72579	1.1896	1.5556
-15800	-15812	575.058	115.388	46.327	1.74290	5.14697	1.72017	1.1865	1.5515
-15700	-15712	574.701	115.031	46.128	1.73720	5.13019	1.71456	1.1834	1.5474
-15600	-15612	574.344	114.674	45.930	1.73161	5.11345	1.70897	1.1802	1.5433
-15500	-15512	573.987	114.317	45.731	1.72594	5.09676	1.70339	1.1771	1.5392
-15400	-15411	573.629	113.959	45.533	1.72032	5.08012	1.69788	1.1740	1.5352
-15300	-15311	573.272	113.602	45.335	1.71470	5.06351	1.69228	1.1709	1.5311
-15200	-15211	572.915	113.245	45.136	1.70910	5.04696	1.68675	1.1678	1.5270
-15100	-15111	572.558	112.888	44.938	1.70350	5.03044	1.68123	1.1647	1.5230
-15000	-15011	572.201	112.531	44.739	1.69793 + 3	5.01397 + 1	1.67572 + 0	1.1616 - 1	1.5190 + 0
-14900	-14911	571.844	112.174	44.541	1.69236	4.99755	1.67023	1.1585	1.5149
-14800	-14811	571.487	111.817	44.343	1.68682	4.98117	1.66476	1.1555	1.5109
-14700	-14710	571.130	111.460	44.144	1.68126	4.96483	1.65930	1.1524	1.5069
-14600	-14610	570.772	111.102	43.946	1.67577	4.94853	1.65385	1.1493	1.5029
-14500	-14510	570.415	110.745	43.747	1.67026	4.93228	1.64842	1.1463	1.4989
-14400	-14410	570.058	110.388	43.549	1.66477	4.91607	1.64300	1.1432	1.4949
-14300	-14310	569.701	110.031	43.351	1.65930	4.89991	1.63760	1.1402	1.4909
-14200	-14210	569.344	109.674	43.152	1.65384	4.88379	1.63221	1.1371	1.4869
-14100	-14110	568.987	109.317	42.954	1.64840	4.86771	1.62684	1.1341	1.4830
-14000	-14009	568.630	108.960	42.755	1.64297 + 3	4.85167 + 1	1.62148 + 0	1.1311 - 1	1.4790 + 0
-13900	-13909	568.273	108.603	42.557	1.63755	4.83548	1.61614	1.1280	1.4751
-13800	-13809	567.916	108.246	42.359	1.63215	4.81973	1.61081	1.1250	1.4711
-13700	-13709	567.558	107.889	42.160	1.62676	4.80383	1.60549	1.1220	1.4672
-13600	-13609	567.201	107.531	41.962	1.62139	4.78796	1.60019	1.1190	1.4633
-13500	-13509	566.844	107.174	41.764	1.61603	4.77213	1.59490	1.1160	1.4594
-13400	-13409	566.487	106.817	41.565	1.61069	4.75636	1.58963	1.1130	1.4555
-13300	-13309	566.130	106.460	41.367	1.60536	4.74053	1.58437	1.1101	1.4515
-13200	-13209	565.773	106.103	41.168	1.60005	4.72493	1.57912	1.1071	1.4477
-13100	-13109	565.416	105.746	40.970	1.59475	4.70928	1.57389	1.1041	1.4438
-13000	-13008	565.059	105.389	40.772	1.58946 + 3	4.69347 + 1	1.56867 + 0	1.1011 - 1	1.4399 + 0
-12900	-12908	564.702	105.032	40.573	1.58419	4.67810	1.56347	1.0982	1.4360
-12800	-12808	564.345	104.675	40.375	1.57893	4.66250	1.55828	1.0952	1.4322
-12700	-12708	563.988	104.318	40.177	1.57369	4.64709	1.55311	1.0923	1.4283
-12600	-12608	563.631	103.961	39.978	1.56846	4.63165	1.54795	1.0894	1.4245
-12500	-12507	563.274	103.604	39.780	1.56326	4.61625	1.54280	1.0864	1.4206
-12400	-12407	562.917	103.247	39.581	1.55804	4.60089	1.53767	1.0835	1.4168
-12300	-12307	562.560	102.890	39.383	1.55285	4.58558	1.53255	1.0806	1.4130
-12200	-12207	562.203	102.533	39.185	1.54768	4.57030	1.52744	1.0777	1.4092
-12100	-12107	561.846	102.176	38.986	1.54252	4.55507	1.52235	1.0747	1.4054
-12000	-12007	561.489	101.819	38.788	1.53738 + 3	4.53987 + 1	1.51727 + 0	1.0718 - 1	1.4016 + 0
-11900	-11907	561.132	101.462	38.590	1.53225	4.52472	1.51221	1.0689	1.3978
-11800	-11807	560.775	101.105	38.391	1.52713	4.50961	1.50716	1.0660	1.3940
-11700	-11707	560.417	100.747	38.193	1.52203	4.49454	1.50212	1.0632	1.3902
-11600	-11606	560.060	100.390	37.995	1.51696	4.47951	1.49718	1.0603	1.3865
-11500	-11506	559.703	100.033	37.796	1.51184	4.46453	1.49209	1.0574	1.3827
-11400	-11406	559.346	99.676	37.598	1.50680	4.44950	1.48710	1.0545	1.3790
-11300	-11306	558.989	99.319	37.400	1.50175	4.43467	1.48211	1.0517	1.3752
-11200	-11206	558.632	98.962	37.201	1.49672	4.41981	1.47715	1.0488	1.3715
-11100	-11106	558.275	98.605	37.003	1.49170	4.40498	1.47219	1.0460	1.3678
-11000	-11006	557.918	98.248	36.805	1.48669 + 3	4.39020 + 1	1.46725 + 0	1.0431 - 1	1.3640 + 0
-10900	-10906	557.561	97.891	36.606	1.48170	4.37545	1.46232	1.0403	1.3603
-10800	-10806	557.204	97.534	36.408	1.47672	4.36075	1.45741	1.0375	1.3566
-10700	-10705	556.847	97.177	36.210	1.47175	4.34608	1.45251	1.0346	1.3529
-10600	-10605	556.491	96.821	36.011	1.46680	4.33146	1.44762	1.0318	1.3492
-10500	-10505	556.134	96.464	35.813	1.46184	4.31686	1.44275	1.0290	1.3455
-10400	-10405	555.777	96.107	35.615	1.45696	4.30233	1.43789	1.0262	1.3419
-10300	-10305	555.420	95.750	35.416	1.45203	4.28783	1.43306	1.0234	1.3382
-10200	-10205	555.063	95.393	35.218	1.44713	4.27337	1.42820	1.0206	1.3346
-10100	-10105	554.706	95.036	35.020	1.44224	4.25894	1.42338	1.0178	1.3309
-10000	-10005	554.349	94.679	34.821	1.43737 + 3	4.24454 + 1	1.41858 + 0	1.0150 - 1	1.3273 + 0
-9900	-9905	553.992	94.322	34.623	1.43251	4.23021	1.41370	1.0122	1.3236
-9800	-9805	553.635	93.965	34.425	1.42767	4.21590	1.40890	1.0095	1.3200
-9700	-9705	553.278	93.608	34.227	1.42286	4.20164	1.40423	1.0067	1.3164
-9600	-9606	552.921	93.251	34.028	1.41802	4.18741	1.39968	1.0039	1.3128
-9500	-9506	552.564	92.894	33.830	1.41321	4.17322	1.39513	1.0012	1.3092
-9400	-9406	552.207	92.537	33.632	1.40842	4.15907	1.39060	0.9984 - 2	1.3056
-9300	-9306	551.850	92.180	33.433	1.40365	4.14494	1.38609	0.9959	1.3020
-9200	-9206	551.493	91.823	33.235	1.39888	4.13089	1.38159	0.9934	1.2984
-9100	-9106	551.136	91.466	33.037	1.39413	4.11686	1.37710	0.9902	1.2948

TABLE IV — Continued
 GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
-9000	-8996	556.765	91.095	32.831	1.38921 + 3	4.10232 + 1	1.37104 + 0	9.8739 - 2	1.2911 + 0
-8900	-8896	559.999	90.739	32.633	1.38448	4.08838	1.36638	9.8667	1.2876
-8800	-8796	559.032	90.582	32.535	1.37978	4.07448	1.36173	9.8596	1.2840
-8700	-8696	560.064	90.426	32.438	1.37508	4.06061	1.35710	9.8525	1.2805
-8600	-8596	561.097	90.270	32.340	1.37038	4.04679	1.35248	9.8454	1.2770
-8500	-8497	562.130	90.112	32.243	1.36568	4.03290	1.34787	9.8383	1.2735
-8400	-8397	563.163	89.954	32.145	1.36098	4.01902	1.34327	9.8312	1.2700
-8300	-8297	564.196	89.797	32.048	1.35628	4.00515	1.33866	9.8241	1.2665
-8200	-8197	565.229	89.639	31.950	1.35158	3.99128	1.33405	9.8170	1.2630
-8100	-8097	566.262	89.482	31.853	1.34688	3.97742	1.32944	9.8100	1.2595
-8000	-7997	567.295	89.324	31.755	1.34218	3.96355	1.32483	9.8029	1.2560
-7900	-7897	568.328	89.167	31.658	1.33748	3.94968	1.32022	9.7958	1.2525
-7800	-7797	569.361	89.009	31.560	1.33278	3.93581	1.31561	9.7887	1.2490
-7700	-7697	570.394	88.852	31.463	1.32808	3.92194	1.31100	9.7816	1.2455
-7600	-7597	571.427	88.694	31.365	1.32338	3.90807	1.30639	9.7745	1.2420
-7500	-7497	572.460	88.537	31.268	1.31868	3.89420	1.30178	9.7674	1.2385
-7400	-7397	573.493	88.379	31.170	1.31398	3.88033	1.29717	9.7603	1.2350
-7300	-7297	574.526	88.222	31.073	1.30928	3.86646	1.29256	9.7532	1.2315
-7200	-7197	575.559	88.064	30.975	1.30458	3.85259	1.28795	9.7461	1.2280
-7100	-7097	576.592	87.907	30.878	1.30000	3.83872	1.28334	9.7390	1.2245
-7000	-6997	577.625	87.749	30.780	1.29530	3.82485	1.27873	9.7319	1.2210
-6900	-6897	578.658	87.592	30.683	1.29060	3.81098	1.27412	9.7248	1.2175
-6800	-6797	579.691	87.434	30.585	1.28590	3.79711	1.26951	9.7177	1.2140
-6700	-6697	580.724	87.277	30.488	1.28120	3.78324	1.26490	9.7106	1.2105
-6600	-6597	581.757	87.119	30.390	1.27650	3.76937	1.26029	9.7035	1.2070
-6500	-6497	582.790	86.962	30.293	1.27180	3.75550	1.25568	9.6964	1.2035
-6400	-6397	583.823	86.804	30.195	1.26710	3.74163	1.25107	9.6893	1.2000
-6300	-6297	584.856	86.647	30.098	1.26240	3.72776	1.24646	9.6822	1.1965
-6200	-6197	585.889	86.489	30.000	1.25770	3.71389	1.24185	9.6751	1.1930
-6100	-6097	586.922	86.332	29.903	1.25300	3.69999	1.23724	9.6680	1.1895
-6000	-5997	587.955	86.174	29.805	1.24830	3.68612	1.23263	9.6609	1.1860
-5900	-5897	588.988	86.017	29.708	1.24360	3.67225	1.22802	9.6538	1.1825
-5800	-5797	589.021	85.859	29.610	1.23890	3.65838	1.22341	9.6467	1.1790
-5700	-5697	590.054	85.702	29.513	1.23420	3.64451	1.21880	9.6396	1.1755
-5600	-5597	591.087	85.544	29.415	1.22950	3.63064	1.21419	9.6325	1.1720
-5500	-5497	592.120	85.387	29.318	1.22480	3.61677	1.20958	9.6254	1.1685
-5400	-5397	593.153	85.229	29.220	1.22010	3.60290	1.20497	9.6183	1.1650
-5300	-5297	594.186	85.072	29.123	1.21540	3.58903	1.20036	9.6112	1.1615
-5200	-5197	595.219	84.914	29.025	1.21070	3.57516	1.19575	9.6041	1.1580
-5100	-5097	596.252	84.757	28.928	1.20600	3.56129	1.19114	9.5970	1.1545
-5000	-4997	597.285	84.599	28.830	1.20130	3.54742	1.18653	9.5899	1.1510
-4900	-4897	598.318	84.442	28.733	1.19660	3.53355	1.18192	9.5828	1.1475
-4800	-4797	599.351	84.284	28.635	1.19190	3.51968	1.17731	9.5757	1.1440
-4700	-4697	600.384	84.127	28.538	1.18720	3.50581	1.17270	9.5686	1.1405
-4600	-4597	601.417	83.969	28.440	1.18250	3.49194	1.16809	9.5615	1.1370
-4500	-4497	602.450	83.812	28.343	1.17780	3.47807	1.16348	9.5544	1.1335
-4400	-4397	603.483	83.654	28.245	1.17310	3.46420	1.15887	9.5473	1.1300
-4300	-4297	604.516	83.497	28.148	1.16840	3.45033	1.15426	9.5402	1.1265
-4200	-4197	605.549	83.339	28.050	1.16370	3.43646	1.14965	9.5331	1.1230
-4100	-4097	606.582	83.182	27.953	1.15900	3.42259	1.14504	9.5260	1.1195
-4000	-3997	607.615	83.024	27.855	1.15430	3.40872	1.14043	9.5189	1.1160
-3900	-3897	608.648	82.867	27.758	1.14960	3.39485	1.13582	9.5118	1.1125
-3800	-3797	609.681	82.709	27.660	1.14490	3.38098	1.13121	9.5047	1.1090
-3700	-3697	610.714	82.552	27.563	1.14020	3.36711	1.12660	9.4976	1.1055
-3600	-3597	611.747	82.394	27.465	1.13550	3.35324	1.12199	9.4905	1.1020
-3500	-3497	612.780	82.237	27.368	1.13080	3.33937	1.11738	9.4834	1.0985
-3400	-3397	613.813	82.079	27.270	1.12610	3.32550	1.11277	9.4763	1.0950
-3300	-3297	614.846	81.922	27.173	1.12140	3.31163	1.10816	9.4692	1.0915
-3200	-3197	615.879	81.764	27.075	1.11670	3.29776	1.10355	9.4621	1.0880
-3100	-3097	616.912	81.607	26.978	1.11200	3.28389	1.09894	9.4550	1.0845
-3000	-2997	617.945	81.449	26.880	1.10730	3.26999	1.09433	9.4479	1.0810
-2900	-2897	618.978	81.292	26.783	1.10260	3.25612	1.08972	9.4408	1.0775
-2800	-2797	619.011	81.134	26.685	1.09790	3.24225	1.08511	9.4337	1.0740
-2700	-2697	620.044	80.977	26.588	1.09320	3.22838	1.08050	9.4266	1.0705
-2600	-2597	621.077	80.819	26.490	1.08850	3.21451	1.07589	9.4195	1.0670
-2500	-2497	622.110	80.662	26.393	1.08380	3.20064	1.07128	9.4124	1.0635
-2400	-2397	623.143	80.504	26.295	1.07910	3.18677	1.06667	9.4053	1.0600
-2300	-2297	624.176	80.347	26.198	1.07440	3.17290	1.06206	9.3982	1.0565
-2200	-2197	625.209	80.189	26.100	1.06970	3.15903	1.05745	9.3911	1.0530
-2100	-2097	626.242	80.032	26.003	1.06500	3.14516	1.05284	9.3840	1.0495
-2000	-1997	627.275	79.874	25.905	1.06030	3.13129	1.04823	9.3769	1.0460
-1900	-1897	628.308	79.717	25.808	1.05560	3.11742	1.04362	9.3698	1.0425
-1800	-1797	629.341	79.559	25.710	1.05090	3.10355	1.03901	9.3627	1.0390
-1700	-1697	630.374	79.402	25.613	1.04620	3.08968	1.03440	9.3556	1.0355
-1600	-1597	631.407	79.244	25.515	1.04150	3.07581	1.02979	9.3485	1.0320
-1500	-1497	632.440	79.087	25.418	1.03680	3.06194	1.02518	9.3414	1.0285
-1400	-1397	633.473	78.929	25.320	1.03210	3.04807	1.02057	9.3343	1.0250
-1300	-1297	634.506	78.772	25.223	1.02740	3.03420	1.01596	9.3272	1.0215
-1200	-1197	635.539	78.614	25.125	1.02270	3.02033	1.01135	9.3201	1.0180
-1100	-1097	636.572	78.457	25.028	1.01800	3.00646	1.00674	9.3130	1.0145

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{\rho}$	ρ , lb ft ⁻³	$\frac{P}{\rho}$
-9000	-9000	550.779	91.109	32.838	1.36030 + 3	0.10200 + 1	1.37122 + 0	9.8750 - 2	1.2913 + 0
-8900	-8900	550.822	90.752	32.640	1.36044	0.08091	1.36656	9.8670	1.2877
-8800	-8800	550.865	90.395	32.442	1.37095	0.07699	1.36191	9.8590	1.2842
-8700	-8700	549.709	89.059	32.244	1.37535	0.05112	1.35727	9.7935	1.2806
-8600	-8600	549.552	88.702	32.045	1.37054	0.04720	1.35264	9.7665	1.2771
-8500	-8500	548.495	87.365	31.847	1.36569	0.03347	1.34803	9.7395	1.2736
-8400	-8400	548.438	87.008	31.649	1.36123	0.01971	1.34343	9.7126	1.2700
-8300	-8300	548.281	86.651	31.451	1.35638	0.00599	1.33880	9.6857	1.2665
-8200	-8200	547.924	86.294	31.253	1.35195	0.99230	1.33427	9.6589	1.2630
-8100	-8100	547.967	87.977	31.055	1.34733	0.97065	1.32971	9.6322	1.2595
-8000	-8000	547.210	87.540	30.856	1.34272 + 3	1.94584 + 1	1.32516 + 0	9.6053 - 2	1.2560 + 0
-7900	-7900	546.853	87.183	30.657	1.33812	1.95167	1.32062	9.5789	1.2526
-7800	-7800	546.896	86.826	30.459	1.33354	0.93793	1.31610	9.5523	1.2491
-7700	-7700	546.140	86.470	30.261	1.32897	1.92444	1.31159	9.5259	1.2456
-7600	-7600	545.783	86.113	30.063	1.32441	0.91099	1.30709	9.4993	1.2422
-7500	-7500	545.626	85.756	29.864	1.31984	1.89755	1.30260	9.4729	1.2387
-7400	-7400	545.269	85.399	29.666	1.31533	1.88417	1.29813	9.4466	1.2353
-7300	-7300	544.912	85.042	29.468	1.31081	1.87082	1.29367	9.4203	1.2318
-7200	-7200	544.555	84.685	29.270	1.30630	1.85751	1.28922	9.3940	1.2284
-7100	-7100	543.998	84.328	29.071	1.30181	1.84424	1.28479	9.3678	1.2250
-7000	-7000	543.641	83.971	28.873	1.29733 + 3	1.83100 + 1	1.28034 + 0	9.3417 - 2	1.2216 + 0
-6900	-6900	543.285	83.615	28.675	1.29286	1.81781	1.27585	9.3156	1.2181
-6800	-6800	542.928	83.258	28.477	1.28840	1.80464	1.27135	9.2896	1.2147
-6700	-6700	542.571	82.901	28.278	1.28394	1.79152	1.26687	9.2637	1.2113
-6600	-6600	542.214	82.544	28.080	1.27952	1.77843	1.26239	9.2378	1.2079
-6500	-6500	541.857	82.187	27.882	1.27510	1.76536	1.25794	9.2119	1.2046
-6400	-6400	541.500	81.830	27.684	1.27070	1.75237	1.25349	9.1861	1.2012
-6300	-6300	541.144	81.474	27.485	1.26630	1.73939	1.24904	9.1604	1.1978
-6200	-6200	540.787	81.117	27.287	1.26192	1.72645	1.24459	9.1347	1.1945
-6100	-6100	540.430	80.760	27.089	1.25755	1.71354	1.24010	9.1091	1.1911
-6000	-6000	540.073	80.403	26.891	1.25319 + 3	1.70067 + 1	1.23560 + 0	9.0835 - 2	1.1878 + 0
-5900	-5900	539.716	80.046	26.693	1.24885	1.68784	1.23115	9.0580	1.1845
-5800	-5800	539.359	79.689	26.494	1.24451	1.67504	1.22674	9.0326	1.1811
-5700	-5700	539.003	79.333	26.296	1.24019	1.66228	1.22237	9.0072	1.1778
-5600	-5600	538.646	78.976	26.098	1.23588	1.64956	1.21797	8.9819	1.1745
-5500	-5500	538.289	78.619	25.899	1.23159	1.63687	1.21358	8.9565	1.1712
-5400	-5400	537.932	78.262	25.701	1.22736	1.62422	1.21125	8.9313	1.1679
-5300	-5300	537.575	77.905	25.503	1.22303	1.61160	1.20704	8.9061	1.1646
-5200	-5200	537.219	77.549	25.305	1.21877	1.59902	1.20283	8.8810	1.1613
-5100	-5100	536.862	77.192	25.107	1.21452	1.58647	1.19864	8.8559	1.1580
-5000	-5000	536.505	76.835	24.908	1.21028 + 3	1.57397 + 1	1.19446 + 0	8.8309 - 2	1.1547 + 0
-4900	-4900	536.148	76.478	24.710	1.20606	1.56169	1.19029	8.8059	1.1515
-4800	-4800	535.791	76.121	24.512	1.20185	1.54945	1.18613	8.7810	1.1482
-4700	-4700	535.434	75.764	24.314	1.19765	1.53728	1.18199	8.7561	1.1450
-4600	-4600	535.077	75.407	24.116	1.19346	1.52516	1.17785	8.7313	1.1417
-4500	-4500	534.720	75.051	23.917	1.18928	1.51305	1.17373	8.7066	1.1385
-4400	-4400	534.364	74.694	23.719	1.18512	1.49996	1.16962	8.6819	1.1353
-4300	-4300	534.008	74.338	23.521	1.18094	1.48739	1.16552	8.6572	1.1320
-4200	-4200	533.651	73.981	23.323	1.17682	1.47516	1.16143	8.6326	1.1288
-4100	-4100	533.294	73.624	23.125	1.17269	1.46294	1.15734	8.6081	1.1256
-4000	-4000	532.937	73.267	22.926	1.16858 + 3	1.45081 + 1	1.15330 + 0	8.5836 - 2	1.1224 + 0
-3900	-3900	532.581	72.911	22.728	1.16447	1.43868	1.14924	8.5592	1.1192
-3800	-3800	532.224	72.554	22.530	1.16038	1.42659	1.14520	8.5348	1.1160
-3700	-3700	531.867	72.197	22.332	1.15630	1.41454	1.14117	8.5105	1.1129
-3600	-3600	531.510	71.840	22.134	1.15223	1.40252	1.13716	8.4862	1.1097
-3500	-3500	531.154	71.484	21.935	1.14817	1.39053	1.13315	8.4620	1.1065
-3400	-3400	530.797	71.127	21.737	1.14412	1.37858	1.12916	8.4379	1.1034
-3300	-3300	530.440	70.770	21.539	1.14008	1.36664	1.12517	8.4138	1.1002
-3200	-3200	530.083	70.413	21.341	1.13604	1.35478	1.12120	8.3897	1.0971
-3100	-3100	529.727	70.057	21.143	1.13205	1.34293	1.11724	8.3657	1.0939
-3000	-3000	529.370	69.700	20.944	1.12805 + 3	1.33112 + 1	1.11329 + 0	8.3418 - 2	1.0908 + 0
-2900	-2900	529.013	69.343	20.746	1.12406	1.31934	1.10936	8.3179	1.0877
-2800	-2800	528.657	68.987	20.548	1.12008	1.30759	1.10543	8.2940	1.0845
-2700	-2700	528.300	68.630	20.350	1.11611	1.29588	1.10152	8.2702	1.0814
-2600	-2600	527.943	68.273	20.152	1.11214	1.28420	1.09761	8.2465	1.0783
-2500	-2500	527.586	67.916	19.954	1.10817	1.27255	1.09372	8.2228	1.0752
-2400	-2400	527.230	67.560	19.755	1.10420	1.26090	1.08986	8.1992	1.0721
-2300	-2300	526.873	67.203	19.557	1.10024	1.24934	1.08597	8.1756	1.0691
-2200	-2200	526.516	66.846	19.359	1.09625	1.23782	1.08211	8.1521	1.0660
-2100	-2100	526.160	66.490	19.161	1.09225	1.22630	1.07824	8.1286	1.0629
-2000	-2000	525.803	66.133	18.963	1.08826 + 3	1.21482 + 1	1.07433 + 0	8.1051 - 2	1.0599 + 0
-1900	-1900	525.446	65.776	18.765	1.08429	1.20338	1.07040	8.0818	1.0568
-1800	-1800	525.090	65.420	18.568	1.08032	1.19197	1.06647	8.0585	1.0537
-1700	-1700	524.733	65.063	18.369	1.07637	1.18059	1.06259	8.0352	1.0507
-1600	-1600	524.376	64.706	18.170	1.07242	1.16924	1.05871	8.0120	1.0477
-1500	-1500	524.020	64.350	17.972	1.06849	1.15793	1.05481	7.9888	1.0446
-1400	-1400	523.663	63.993	17.774	1.06455	1.14665	1.05094	7.9657	1.0416
-1300	-1300	523.306	63.636	17.576	1.06061	1.13540	1.04708	7.9426	1.0386
-1200	-1200	522.950	63.280	17.378	1.05677	1.12418	1.04316	7.9196	1.0356
-1100	-1100	522.593	62.923	17.179	1.05288	1.11300	1.03926	7.8966	1.0326

TABLE IX.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
M, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
-1000	-1000	522.236	42.344	10.991	1.05341 + 3	3.10105 + 1	1.03447 + 0	7.0757 - 2	1.0294 + 0
-900	-900	521.000	42.210	10.783	1.04444	3.09073	1.03299	7.0509	1.0244
-800	-800	521.523	41.993	10.583	1.04204	3.07965	1.03215	7.0201	1.0230
-700	-700	521.166	41.994	10.507	1.03916	3.06859	1.03134	7.0053	1.0204
-600	-600	520.010	41.160	10.100	1.03541	3.05757	1.03057	7.0022	1.0177
-500	-500	519.553	40.722	10.791	1.03249	3.04659	1.02980	7.0099	1.0141
-400	-400	518.094	40.424	10.792	1.02960	3.03563	1.02904	7.0273	1.0110
-300	-300	516.740	39.970	10.594	1.02670	3.02471	1.02829	7.0100	1.0080
-200	-200	516.803	39.712	10.396	1.02389	3.01381	1.02755	7.0023	1.0050
-100	-100	519.627	39.267	10.198	1.02102	3.00293	1.02682	7.0000	1.0029
0	0	518.476	39.000	10.000	1.01825 + 3	2.99215 + 1	1.02600 + 0	7.0078 - 2	1.0000 + 0
100	100	516.513	38.643	10.000	1.00959	2.98133	0.99391 - 1	7.0251	0.9708 - 1
200	200	517.957	38.287	10.000	1.00095	2.97050	0.98308	7.0020	0.9512
300	300	517.000	37.930	10.000	1.00231	2.95965	0.97226	7.0000	0.9315
400	400	515.213	37.573	10.000	0.99369 + 2	2.94881	0.96143	7.0000	0.9118
500	500	514.007	37.117	10.000	0.98507	2.93796	0.95060	7.0000	0.8921
600	600	512.830	36.660	10.011	0.97645	2.92712	0.93978	7.0000	0.8724
700	700	511.676	36.204	10.012	0.96783	2.91627	0.92894	7.0000	0.8527
800	800	510.517	35.747	10.013	0.95921	2.90543	0.91810	7.0000	0.8330
900	900	511.640	35.790	10.217	0.95059	2.89458	0.90726	7.0000	0.8133
1000	1000	515.104	35.434	10.019	0.94197 + 2	2.88373 + 1	0.89643 - 1	7.0201 - 2	0.7936 - 1
1100	1100	516.707	35.077	10.021	0.93335	2.87288	0.88559	7.0000	0.7739
1200	1200	516.301	34.721	10.022	0.92473	2.86203	0.87475	7.0000	0.7542
1300	1300	516.034	34.364	10.024	0.91611	2.85118	0.86391	7.0000	0.7345
1400	1400	515.677	34.007	10.025	0.90749	2.84033	0.85307	7.0000	0.7148
1500	1500	515.321	33.651	10.026	0.89887	2.82948	0.84223	7.0000	0.6951
1600	1600	512.964	33.294	10.028	0.89025	2.81863	0.83139	7.0000	0.6754
1700	1700	512.608	32.938	10.029	0.88163	2.80778	0.82055	7.0000	0.6557
1800	1800	512.251	32.581	10.030	0.87301	2.79693	0.80971	7.0000	0.6360
1900	1900	511.894	32.224	10.031	0.86439	2.78608	0.79887	7.0000	0.6163
2000	2000	511.538	31.868	10.032	0.85577 + 2	2.77523 + 1	0.78802 - 1	7.0209 - 2	0.5966 - 1
2100	2100	511.181	31.511	10.033	0.84715	2.76438	0.77718	7.0000	0.5769
2200	2200	510.824	31.154	10.034	0.83853	2.75353	0.76634	7.0000	0.5572
2300	2300	510.468	30.798	10.035	0.82991	2.74268	0.75550	7.0000	0.5375
2400	2400	510.111	30.441	10.036	0.82129	2.73183	0.74466	7.0000	0.5178
2500	2500	509.755	30.085	10.037	0.81267	2.72098	0.73382	7.0000	0.4981
2600	2600	509.398	29.728	10.038	0.80405	2.71013	0.72298	7.0000	0.4784
2700	2700	509.041	29.371	10.039	0.79543	2.69928	0.71214	7.0000	0.4587
2800	2800	508.685	29.015	10.040	0.78681	2.68843	0.70130	7.0000	0.4390
2900	2900	508.328	28.658	10.041	0.77819	2.67758	0.69046	7.0000	0.4193
3000	3000	507.972	28.302	10.042	0.76957 + 2	2.66673 + 1	0.67961 - 1	0.6998 - 2	0.3996 - 1
3100	3100	507.615	27.945	10.043	0.76095	2.65588	0.66877	0.6797	0.3799
3200	3200	507.259	27.589	10.044	0.75233	2.64503	0.65793	0.6596	0.3602
3300	3300	506.902	27.232	10.045	0.74371	2.63418	0.64709	0.6395	0.3405
3400	3400	506.545	26.875	10.046	0.73509	2.62333	0.63625	0.6194	0.3208
3500	3500	506.188	26.518	10.047	0.72647	2.61248	0.62541	0.5993	0.3011
3600	3600	505.832	26.162	10.048	0.71785	2.60163	0.61457	0.5792	0.2814
3700	3700	505.475	25.805	10.049	0.70923	2.59078	0.60373	0.5591	0.2617
3800	3800	505.119	25.449	10.050	0.70061	2.57993	0.59289	0.5390	0.2420
3900	3900	504.762	25.092	10.051	0.69199	2.56908	0.58205	0.5189	0.2223
4000	4000	504.405	24.735	10.052	0.68337 + 2	2.55823 + 1	0.57121 - 1	0.4988 - 2	0.2026 - 1
4100	4100	504.049	24.379	10.053	0.67475	2.54738	0.56037	0.4787	0.1829
4200	4200	503.692	24.022	10.054	0.66613	2.53653	0.54953	0.4586	0.1632
4300	4300	503.335	23.665	10.055	0.65751	2.52568	0.53869	0.4385	0.1435
4400	4400	502.979	23.309	10.056	0.64889	2.51483	0.52785	0.4184	0.1238
4500	4500	502.622	22.952	10.057	0.64027	2.50398	0.51701	0.3983	0.1041
4600	4600	502.266	22.596	10.058	0.63165	2.49313	0.50617	0.3782	0.0844
4700	4700	501.909	22.239	10.059	0.62303	2.48228	0.49533	0.3581	0.0647
4800	4800	501.553	21.882	10.060	0.61441	2.47143	0.48449	0.3380	0.0450
4900	4900	501.196	21.525	10.061	0.60579	2.46058	0.47365	0.3179	0.0253
5000	5000	500.839	21.169	10.062	0.59717 + 2	2.44973 + 1	0.46281 - 1	0.2978 - 2	0.0056 - 1
5100	5100	500.483	20.813	10.063	0.58855	2.43888	0.45197	0.2777	0.0059
5200	5200	500.126	20.456	10.064	0.57993	2.42803	0.44113	0.2576	0.0062
5300	5300	499.769	20.100	10.065	0.57131	2.41718	0.43029	0.2375	0.0065
5400	5400	499.413	19.743	10.066	0.56269	2.40633	0.41945	0.2174	0.0068
5500	5500	499.056	19.386	10.067	0.55407	2.39548	0.40861	0.1973	0.0071
5600	5600	498.699	19.029	10.068	0.54545	2.38463	0.39777	0.1772	0.0074
5700	5700	498.343	18.673	10.069	0.53683	2.37378	0.38693	0.1571	0.0077
5800	5800	497.986	18.316	10.070	0.52821	2.36293	0.37609	0.1370	0.0080
5900	5900	497.630	17.960	10.071	0.51959	2.35208	0.36525	0.1169	0.0083
6000	6000	497.273	17.603	10.072	0.51097 + 2	2.34123 + 1	0.35441 - 1	0.0968 - 2	0.0086 - 1
6100	6100	496.916	17.246	10.073	0.50235	2.33038	0.34357	0.0767	0.0089
6200	6200	496.560	16.890	10.074	0.49373	2.31953	0.33273	0.0566	0.0092
6300	6300	496.203	16.533	10.075	0.48511	2.30868	0.32189	0.0365	0.0095
6400	6400	495.847	16.177	10.076	0.47649	2.29783	0.31105	0.0164	0.0098
6500	6500	495.490	15.820	10.077	0.46787	2.28698	0.30021	0.0063	0.0101
6600	6600	495.133	15.463	10.078	0.45925	2.27613	0.28937	0.0062	0.0104
6700	6700	494.777	15.107	10.079	0.45063	2.26528	0.27853	0.0061	0.0107
6800	6800	494.420	14.750	10.080	0.44201	2.25443	0.26769	0.0060	0.0110
6900	6900	494.063	14.393	10.081	0.43339	2.24358	0.25685	0.0059	0.0113

TABLE IV - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
-1000	-1000	522.234	62.544	16.961	1.05941 + 3	3.18103 + 1	1.05447 + 0	7.6757 - 2	1.0294 + 0
-900	-900	521.808	62.210	16.703	1.06444	3.19073	1.05290	7.6560	1.0266
-800	-800	521.322	61.853	16.503	1.06989	3.19965	1.05135	7.6361	1.0238
-700	-700	520.816	61.484	16.361	1.07575	3.20785	1.04980	7.6159	1.0210
-600	-600	520.290	61.104	16.189	1.08202	3.21531	1.04825	7.5954	1.0182
-500	-500	519.740	60.724	15.991	1.08870	3.22202	1.04670	7.5747	1.0154
-400	-400	519.170	60.344	15.702	1.09579	3.22797	1.04515	7.5537	1.0126
-300	-300	518.580	60.000	15.394	1.10329	3.23315	1.04360	7.5324	1.0098
-200	-200	517.970	59.690	15.113	1.11120	3.23755	1.04205	7.5108	1.0070
-100	-100	517.340	59.420	14.818	1.11952	3.24117	1.04050	7.4889	1.0042
0	0	516.670	59.000	14.500	1.12825 + 3	3.24402 + 1	1.00000 + 0	7.4674 - 2	1.0000 + 0
100	100	516.313	58.643	14.302	1.00950	2.98123	0.96391 - 1	7.4651	0.9990 - 1
200	200	517.457	58.267	14.004	1.00905	2.97959	0.96228	7.4628	0.9974 - 1
300	300	517.000	57.930	13.802	1.00931	2.97903	0.96065	7.4605	0.9958 - 1
400	400	517.244	57.574	13.600	1.00969 + 2	2.97949	0.95902	7.4582	0.9942 - 1
500	500	517.807	57.217	13.400	1.01029	2.98000	0.95740	7.4559	0.9926 - 1
600	600	518.530	56.860	13.211	1.01111	2.98064	0.95578	7.4536	0.9910 - 1
700	700	519.417	56.504	13.013	1.01215	2.98142	0.95417	7.4513	0.9894 - 1
800	800	519.567	56.147	12.815	1.01341	2.98235	0.95257	7.4490	0.9878 - 1
900	900	519.841	55.791	12.617	1.01489	2.98343	0.95098	7.4467	0.9862 - 1
1000	1000	519.164	55.434	12.419	1.01717 + 2	2.98557 + 1	0.94940 - 1	7.4444 - 2	0.9846 - 1
1100	1100	518.767	55.077	12.221	1.01961	2.98790	0.94782	7.4421	0.9830 - 1
1200	1200	518.591	54.721	12.023	1.02227	2.99044	0.94625	7.4398	0.9814 - 1
1300	1300	518.634	54.364	11.825	1.02516	2.99319	0.94468	7.4375	0.9798 - 1
1400	1400	518.678	54.008	11.627	1.02827	2.99615	0.94312	7.4352	0.9782 - 1
1500	1500	518.721	53.651	11.429	1.03160	2.99932	0.94156	7.4329	0.9766 - 1
1600	1600	518.945	53.295	11.231	1.03515	2.99269	0.94000	7.4306	0.9750 - 1
1700	1700	519.268	52.938	11.033	1.03892	2.99626	0.93844	7.4283	0.9734 - 1
1800	1800	519.791	52.581	10.835	1.04291	2.99993	0.93688	7.4260	0.9718 - 1
1900	1900	519.895	52.225	10.637	1.04712	2.99370	0.93532	7.4237	0.9702 - 1
2000	2000	511.538	51.868	11.030	0.942135 + 2	2.78212 + 1	0.929815 - 1	7.2090 - 2	0.94270 - 1
2100	2100	511.182	51.512	10.840	0.94489	2.77195	0.92824	7.1865	0.93999
2200	2200	510.825	51.155	10.642	0.94785	2.76180	0.92667	7.1642	0.93720
2300	2300	510.468	50.799	10.444	0.95092	2.75165	0.92510	7.1419	0.93442
2400	2400	510.112	50.442	10.246	0.95410	2.74150	0.92353	7.1197	0.93164
2500	2500	509.756	50.086	10.048	0.95738	2.73135	0.92196	7.0974	0.92887
2600	2600	509.400	49.729	9.850	0.96076	2.72120	0.92039	7.0752	0.92610
2700	2700	509.043	49.373	9.651	0.96424	2.71105	0.91882	7.0529	0.92333
2800	2800	508.687	49.016	9.453	0.96781	2.70090	0.91725	7.0307	0.92056
2900	2900	508.330	48.660	9.255	0.97148	2.69075	0.91568	7.0084	0.91779
3000	3000	507.973	48.303	9.057	0.97525 + 2	2.68060 + 1	0.91411 - 1	6.9862 - 2	0.91502 - 1
3100	3100	507.617	47.947	8.859	0.97912	2.67045	0.91254	6.9640	0.91225
3200	3200	507.260	47.590	8.661	0.98309	2.66030	0.91097	6.9418	0.90948
3300	3300	506.904	47.234	8.463	0.98716	2.65015	0.90940	6.9196	0.90671
3400	3400	506.547	46.877	8.265	0.99133	2.64000	0.90783	6.8974	0.90394
3500	3500	506.191	46.521	8.067	0.99560	2.62985	0.90626	6.8752	0.90117
3600	3600	505.834	46.164	7.869	0.99997	2.61970	0.90469	6.8530	0.89840
3700	3700	505.478	45.808	7.671	1.00444	2.60955	0.90312	6.8308	0.89563
3800	3800	505.121	45.451	7.473	1.00891	2.59940	0.90155	6.8086	0.89286
3900	3900	504.765	45.095	7.275	1.01338	2.58925	0.90000	6.7864	0.89009
4000	4000	504.408	44.738	7.077	1.01795	2.57910	0.89843	6.7642	0.88732
4100	4100	504.052	44.382	6.879	1.02262	2.56895	0.89686	6.7420	0.88455
4200	4200	503.695	44.025	6.681	1.02739	2.55880	0.89529	6.7198	0.88178
4300	4300	503.339	43.669	6.483	1.03226	2.54865	0.89372	6.6976	0.87901
4400	4400	502.982	43.312	6.285	1.03723	2.53850	0.89215	6.6754	0.87624
4500	4500	502.626	42.956	6.087	1.04230	2.52835	0.89058	6.6532	0.87347
4600	4600	502.269	42.599	5.889	1.04747	2.51820	0.88901	6.6310	0.87070
4700	4700	501.913	42.243	5.691	1.05274	2.50805	0.88744	6.6088	0.86793
4800	4800	501.556	41.886	5.493	1.05811	2.49790	0.88587	6.5866	0.86516
4900	4900	501.200	41.530	5.295	1.06358	2.48775	0.88430	6.5644	0.86239
5000	5000	500.843	41.173	5.096	1.06915	2.47760	0.88273	6.5422	0.85962
5100	5100	500.487	40.817	4.898	1.07482	2.46745	0.88116	6.5200	0.85685
5200	5200	500.131	40.461	4.700	1.08059	2.45730	0.87959	6.4978	0.85408
5300	5300	499.774	40.104	4.502	1.08646	2.44715	0.87802	6.4756	0.85131
5400	5400	499.418	39.748	4.304	1.09243	2.43700	0.87645	6.4534	0.84854
5500	5500	499.061	39.391	4.106	1.09850	2.42685	0.87488	6.4312	0.84577
5600	5600	498.705	39.035	3.908	1.10467	2.41670	0.87331	6.4090	0.84300
5700	5700	498.348	38.678	3.710	1.11094	2.40655	0.87174	6.3868	0.84023
5800	5800	497.992	38.322	3.512	1.11731	2.39640	0.87017	6.3646	0.83746
5900	5900	497.636	37.966	3.314	1.12378	2.38625	0.86860	6.3424	0.83469
6000	6000	497.279	37.609	3.116	1.13035	2.37610	0.86703	6.3202	0.83192
6100	6100	496.923	37.253	2.918	1.13702	2.36595	0.86546	6.2980	0.82915
6200	6200	496.566	36.896	2.720	1.14379	2.35580	0.86389	6.2758	0.82638
6300	6300	496.210	36.540	2.522	1.15066	2.34565	0.86232	6.2536	0.82361
6400	6400	495.854	36.184	2.324	1.15763	2.33550	0.86075	6.2314	0.82084
6500	6500	495.497	35.827	2.126	1.16470	2.32535	0.85918	6.2092	0.81807
6600	6600	495.141	35.471	1.928	1.17187	2.31520	0.85761	6.1870	0.81530
6700	6700	494.784	35.114	1.730	1.17914	2.30505	0.85604	6.1648	0.81253
6800	6800	494.428	34.758	1.532	1.18651	2.29490	0.85447	6.1426	0.80976
6900	6900	494.072	34.402	1.334	1.19408	2.28475	0.85290	6.1204	0.80699

TABLE III - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
M, ft	Z, ft	T, °R	T, °F	T, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
7000	7002	693.707	34.037	1.132	2.81853	2.30601	7.71629	0.1993	0.1044
7100	7103	693.350	33.660	0.933	2.78009	2.26000	7.68796	0.1993	0.1044
7200	7202	692.994	33.283	0.756	2.74265	2.21533	7.65928	0.1993	0.1044
7300	7303	692.637	32.907	0.580	2.70521	2.17100	7.63040	0.1993	0.1044
7400	7402	692.280	32.530	0.404	2.66777	2.12667	7.60152	0.1993	0.1044
7500	7503	691.923	32.153	0.228	2.63033	2.08233	7.57264	0.1993	0.1044
7600	7602	691.567	31.777	0.052	2.59289	2.03800	7.54376	0.1993	0.1044
7700	7703	691.210	31.400	-0.124	2.55545	1.99367	7.51488	0.1993	0.1044
7800	7802	690.853	31.023	-0.299	2.51801	1.94933	7.48600	0.1993	0.1044
7900	7903	690.497	30.647	-0.473	2.48057	1.90500	7.45712	0.1993	0.1044
8000	8002	690.140	30.270	-0.648	2.44313	1.86067	7.42824	0.1993	0.1044
8100	8103	689.783	29.893	-0.822	2.40569	1.81633	7.39936	0.1993	0.1044
8200	8202	689.427	29.517	-0.997	2.36825	1.77200	7.37048	0.1993	0.1044
8300	8303	689.070	29.140	-1.171	2.33081	1.72767	7.34160	0.1993	0.1044
8400	8402	688.713	28.763	-1.346	2.29337	1.68333	7.31272	0.1993	0.1044
8500	8503	688.357	28.387	-1.520	2.25593	1.63900	7.28384	0.1993	0.1044
8600	8602	688.000	28.010	-1.695	2.21849	1.59467	7.25496	0.1993	0.1044
8700	8703	687.643	27.633	-1.869	2.18105	1.55033	7.22608	0.1993	0.1044
8800	8802	687.287	27.257	-2.043	2.14361	1.50600	7.19720	0.1993	0.1044
8900	8903	686.930	26.880	-2.218	2.10617	1.46167	7.16832	0.1993	0.1044
9000	9002	686.573	26.503	-2.392	2.06873	1.41733	7.13944	0.1993	0.1044
9100	9103	686.217	26.127	-2.566	2.03129	1.37300	7.11056	0.1993	0.1044
9200	9202	685.860	25.750	-2.740	1.99385	1.32867	7.08168	0.1993	0.1044
9300	9303	685.503	25.373	-2.914	1.95641	1.28433	7.05280	0.1993	0.1044
9400	9402	685.147	24.997	-3.088	1.91897	1.24000	7.02392	0.1993	0.1044
9500	9503	684.790	24.620	-3.262	1.88153	1.19567	6.99504	0.1993	0.1044
9600	9602	684.433	24.243	-3.436	1.84409	1.15133	6.96616	0.1993	0.1044
9700	9703	684.077	23.867	-3.610	1.80665	1.10700	6.93728	0.1993	0.1044
9800	9802	683.720	23.490	-3.784	1.76921	1.06267	6.90840	0.1993	0.1044
9900	9903	683.363	23.113	-3.958	1.73177	1.01833	6.87952	0.1993	0.1044
10000	10002	683.007	22.737	-4.132	1.69433	0.97400	6.85064	0.1993	0.1044
10100	10103	682.650	22.360	-4.306	1.65689	0.92967	6.82176	0.1993	0.1044
10200	10202	682.293	21.983	-4.480	1.61945	0.88533	6.79288	0.1993	0.1044
10300	10303	681.937	21.607	-4.654	1.58201	0.84100	6.76400	0.1993	0.1044
10400	10402	681.580	21.230	-4.828	1.54457	0.79667	6.73512	0.1993	0.1044
10500	10503	681.223	20.853	-5.002	1.50713	0.75233	6.70624	0.1993	0.1044
10600	10602	680.867	20.477	-5.176	1.46969	0.70800	6.67736	0.1993	0.1044
10700	10703	680.510	20.100	-5.350	1.43225	0.66367	6.64848	0.1993	0.1044
10800	10802	680.153	19.723	-5.524	1.39481	0.61933	6.61960	0.1993	0.1044
10900	10903	679.797	19.347	-5.698	1.35737	0.57500	6.59072	0.1993	0.1044
11000	11002	679.440	18.970	-5.872	1.31993	0.53067	6.56184	0.1993	0.1044
11100	11103	679.083	18.593	-6.046	1.28249	0.48633	6.53296	0.1993	0.1044
11200	11202	678.727	18.217	-6.220	1.24505	0.44200	6.50408	0.1993	0.1044
11300	11303	678.370	17.840	-6.394	1.20761	0.39767	6.47520	0.1993	0.1044
11400	11402	678.013	17.463	-6.568	1.17017	0.35333	6.44632	0.1993	0.1044
11500	11503	677.657	17.087	-6.742	1.13273	0.30900	6.41744	0.1993	0.1044
11600	11602	677.300	16.710	-6.916	1.09529	0.26467	6.38856	0.1993	0.1044
11700	11703	676.943	16.333	-7.090	1.05785	0.22033	6.35968	0.1993	0.1044
11800	11802	676.587	15.957	-7.264	1.02041	0.17600	6.33080	0.1993	0.1044
11900	11903	676.230	15.580	-7.438	0.98297	0.13167	6.30192	0.1993	0.1044
12000	12002	675.873	15.203	-7.612	0.94553	0.08733	6.27304	0.1993	0.1044
12100	12103	675.517	14.827	-7.786	0.90809	0.04300	6.24416	0.1993	0.1044
12200	12202	675.160	14.450	-7.960	0.87065	0.00000	6.21528	0.1993	0.1044
12300	12303	674.803	14.073	-8.134	0.83321		6.18640	0.1993	0.1044
12400	12402	674.447	13.697	-8.308	0.79577		6.15752	0.1993	0.1044
12500	12503	674.090	13.320	-8.482	0.75833		6.12864	0.1993	0.1044
12600	12602	673.733	12.943	-8.656	0.72089		6.09976	0.1993	0.1044
12700	12703	673.377	12.567	-8.830	0.68345		6.07088	0.1993	0.1044
12800	12802	673.020	12.190	-9.004	0.64601		6.04200	0.1993	0.1044
12900	12903	672.663	11.813	-9.178	0.60857		6.01312	0.1993	0.1044
13000	13002	672.307	11.437	-9.352	0.57113		5.98424	0.1993	0.1044
13100	13103	671.950	11.060	-9.526	0.53369		5.95536	0.1993	0.1044
13200	13202	671.593	10.683	-9.700	0.49625		5.92648	0.1993	0.1044
13300	13303	671.237	10.307	-9.874	0.45881		5.89760	0.1993	0.1044
13400	13402	670.880	9.930	-10.048	0.42137		5.86872	0.1993	0.1044
13500	13503	670.523	9.553	-10.222	0.38393		5.83984	0.1993	0.1044
13600	13602	670.167	9.177	-10.396	0.34649		5.81096	0.1993	0.1044
13700	13703	669.810	8.800	-10.570	0.30905		5.78208	0.1993	0.1044
13800	13802	669.453	8.423	-10.744	0.27161		5.75320	0.1993	0.1044
13900	13903	669.097	8.047	-10.918	0.23417		5.72432	0.1993	0.1044
14000	14002	668.740	7.670	-11.092	0.19673		5.69544	0.1993	0.1044
14100	14103	668.383	7.293	-11.266	0.15929		5.66656	0.1993	0.1044
14200	14202	668.027	6.917	-11.440	0.12185		5.63768	0.1993	0.1044
14300	14303	667.670	6.540	-11.614	0.08441		5.60880	0.1993	0.1044
14400	14402	667.313	6.163	-11.788	0.04697		5.57992	0.1993	0.1044
14500	14503	666.957	5.787	-11.962	0.00953		5.55104	0.1993	0.1044
14600	14602	666.600	5.410	-12.136	0.00000		5.52216	0.1993	0.1044
14700	14703	666.243	5.033	-12.310			5.49328	0.1993	0.1044
14800	14802	665.887	4.657	-12.484			5.46440	0.1993	0.1044
14900	14903	665.530	4.280	-12.658			5.43552	0.1993	0.1044

TABLE IV - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	$\rho, \text{lb ft}^{-3}$	$\frac{\rho}{\rho_0}$
7000	6998	491.715	34.645	1.198	7.01923 * 2	2.30902 * 1	7.71690 - 1	6.1998 - 2	0.1678 - 1
7100	7098	491.359	33.489	0.938	7.00641	2.29927	7.489775	6.1805	0.0222
7200	7197	491.002	32.332	0.778	7.00000	2.29155	7.25860	6.1618	0.0573
7300	7297	490.645	31.175	0.518	7.00000	2.28384	7.02895	6.1429	0.0324
7400	7397	490.289	30.018	0.258	7.00130	2.27610	7.00050	6.1240	0.0079
7500	7497	489.932	28.861	0.000	7.00250	2.26835	7.01712	6.1051	7.0032
7600	7597	489.575	27.704	-0.252	7.00380	2.26060	7.03295	6.0862	7.0387
7700	7697	489.218	26.547	-0.500	7.00510	2.25285	7.04878	6.0673	7.0741
7800	7797	488.861	25.390	-0.748	7.00640	2.24510	7.06461	6.0484	7.1095
7900	7897	488.504	24.233	-1.000	7.00770	2.23735	7.08044	6.0295	7.1449
8000	7997	488.147	23.076	-1.252	7.00900	2.22960	7.09627	6.0106	7.1803
8100	8097	487.790	21.919	-1.500	7.01030	2.22185	7.11210	5.9917	7.2157
8200	8197	487.433	20.762	-1.748	7.01160	2.21410	7.12793	5.9728	7.2511
8300	8297	487.076	19.605	-1.996	7.01290	2.20635	7.14376	5.9539	7.2865
8400	8397	486.719	18.448	-2.244	7.01420	2.19860	7.15959	5.9350	7.3219
8500	8497	486.362	17.291	-2.492	7.01550	2.19085	7.17542	5.9161	7.3573
8600	8597	486.005	16.134	-2.740	7.01680	2.18310	7.19125	5.8972	7.3927
8700	8697	485.648	14.977	-2.988	7.01810	2.17535	7.20708	5.8783	7.4281
8800	8797	485.291	13.820	-3.236	7.01940	2.16760	7.22291	5.8594	7.4635
8900	8897	484.934	12.663	-3.484	7.02070	2.15985	7.23874	5.8405	7.4989
9000	8997	484.577	11.506	-3.732	7.02200	2.15210	7.25457	5.8216	7.5343
9100	9097	484.220	10.349	-3.980	7.02330	2.14435	7.27040	5.8027	7.5697
9200	9197	483.863	9.192	-4.228	7.02460	2.13660	7.28623	5.7838	7.6051
9300	9297	483.506	8.035	-4.476	7.02590	2.12885	7.30206	5.7649	7.6405
9400	9397	483.149	6.878	-4.724	7.02720	2.12110	7.31789	5.7460	7.6759
9500	9497	482.792	5.721	-4.972	7.02850	2.11335	7.33372	5.7271	7.7113
9600	9597	482.435	4.564	-5.220	7.02980	2.10560	7.34955	5.7082	7.7467
9700	9697	482.078	3.407	-5.468	7.03110	2.09785	7.36538	5.6893	7.7821
9800	9797	481.721	2.250	-5.716	7.03240	2.09010	7.38121	5.6704	7.8175
9900	9897	481.364	1.093	-5.964	7.03370	2.08235	7.39704	5.6515	7.8529
10000	9997	481.007	-0.064	-6.212	7.03500	2.07460	7.41287	5.6326	7.8883
10100	10097	480.650	-1.221	-6.460	7.03630	2.06685	7.42870	5.6137	7.9237
10200	10197	480.293	-2.378	-6.708	7.03760	2.05910	7.44453	5.5948	7.9591
10300	10297	479.936	-3.535	-6.956	7.03890	2.05135	7.46036	5.5759	7.9945
10400	10397	479.579	-4.692	-7.204	7.04020	2.04360	7.47619	5.5570	8.0299
10500	10497	479.222	-5.849	-7.452	7.04150	2.03585	7.49202	5.5381	8.0653
10600	10597	478.865	-7.006	-7.700	7.04280	2.02810	7.50785	5.5192	8.1007
10700	10697	478.508	-8.163	-7.948	7.04410	2.02035	7.52368	5.5003	8.1361
10800	10797	478.151	-9.320	-8.196	7.04540	2.01260	7.53951	5.4814	8.1715
10900	10897	477.794	-10.477	-8.444	7.04670	2.00485	7.55534	5.4625	8.2069
11000	10997	477.437	-11.634	-8.692	7.04800	1.99710	7.57117	5.4436	8.2423
11100	11097	477.080	-12.791	-8.940	7.04930	1.98935	7.58700	5.4247	8.2777
11200	11197	476.723	-13.948	-9.188	7.05060	1.98160	7.60283	5.4058	8.3131
11300	11297	476.366	-15.105	-9.436	7.05190	1.97385	7.61866	5.3869	8.3485
11400	11397	476.009	-16.262	-9.684	7.05320	1.96610	7.63449	5.3680	8.3839
11500	11497	475.652	-17.419	-9.932	7.05450	1.95835	7.65032	5.3491	8.4193
11600	11597	475.295	-18.576	-10.180	7.05580	1.95060	7.66615	5.3302	8.4547
11700	11697	474.938	-19.733	-10.428	7.05710	1.94285	7.68198	5.3113	8.4901
11800	11797	474.581	-20.890	-10.676	7.05840	1.93510	7.69781	5.2924	8.5255
11900	11897	474.224	-22.047	-10.924	7.05970	1.92735	7.71364	5.2735	8.5609
12000	11997	473.867	-23.204	-11.172	7.06100	1.91960	7.72947	5.2546	8.5963
12100	12097	473.510	-24.361	-11.420	7.06230	1.91185	7.74530	5.2357	8.6317
12200	12197	473.153	-25.518	-11.668	7.06360	1.90410	7.76113	5.2168	8.6671
12300	12297	472.796	-26.675	-11.916	7.06490	1.89635	7.77696	5.1979	8.7025
12400	12397	472.439	-27.832	-12.164	7.06620	1.88860	7.79279	5.1790	8.7379
12500	12497	472.082	-28.989	-12.412	7.06750	1.88085	7.80862	5.1601	8.7733
12600	12597	471.725	-30.146	-12.660	7.06880	1.87310	7.82445	5.1412	8.8087
12700	12697	471.368	-31.303	-12.908	7.07010	1.86535	7.84028	5.1223	8.8441
12800	12797	471.011	-32.460	-13.156	7.07140	1.85760	7.85611	5.1034	8.8795
12900	12897	470.654	-33.617	-13.404	7.07270	1.84985	7.87194	5.0845	8.9149
13000	12997	470.297	-34.774	-13.652	7.07400	1.84210	7.88777	5.0656	8.9503
13100	13097	469.940	-35.931	-13.900	7.07530	1.83435	7.90360	5.0467	8.9857
13200	13197	469.583	-37.088	-14.148	7.07660	1.82660	7.91943	5.0278	9.0211
13300	13297	469.226	-38.245	-14.396	7.07790	1.81885	7.93526	5.0089	9.0565
13400	13397	468.869	-39.402	-14.644	7.07920	1.81110	7.95109	4.9900	9.0919
13500	13497	468.512	-40.559	-14.892	7.08050	1.80335	7.96692	4.9711	9.1273
13600	13597	468.155	-41.716	-15.140	7.08180	1.79560	7.98275	4.9522	9.1627
13700	13697	467.798	-42.873	-15.388	7.08310	1.78785	7.99858	4.9333	9.1981
13800	13797	467.441	-44.030	-15.636	7.08440	1.78010	8.01441	4.9144	9.2335
13900	13897	467.084	-45.187	-15.884	7.08570	1.77235	8.03024	4.8955	9.2689
14000	13997	466.727	-46.344	-16.132	7.08700	1.76460	8.04607	4.8766	9.3043
14100	14097	466.370	-47.501	-16.380	7.08830	1.75685	8.06190	4.8577	9.3397
14200	14197	466.013	-48.658	-16.628	7.08960	1.74910	8.07773	4.8388	9.3751
14300	14297	465.656	-49.815	-16.876	7.09090	1.74135	8.09356	4.8199	9.4105
14400	14397	465.299	-50.972	-17.124	7.09220	1.73360	8.10939	4.8010	9.4459
14500	14497	464.942	-52.129	-17.372	7.09350	1.72585	8.12522	4.7821	9.4813
14600	14597	464.585	-53.286	-17.620	7.09480	1.71810	8.14105	4.7632	9.5167
14700	14697	464.228	-54.443	-17.868	7.09610	1.71035	8.15688	4.7443	9.5521
14800	14797	463.871	-55.600	-18.116	7.09740	1.70260	8.17271	4.7254	9.5875
14900	14897	463.514	-56.757	-18.364	7.09870	1.69485	8.18854	4.7065	9.6229

TABLE IV.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
15000	15011	465.178	3.508	-16.718	5.71619 + 2	1.68858 + 1	5.64362 - 1	4.8120 - 2	6.2924 - 1
15100	15111	464.821	3.151	-16.916	5.69519	1.68179	5.62071	4.7964	6.2719
15200	15211	464.464	2.794	-17.114	5.67226	1.67502	5.59809	4.7807	6.2514
15300	15311	464.108	2.438	-17.312	5.64941	1.66827	5.57553	4.7651	6.2310
15400	15411	463.751	2.081	-17.510	5.62665	1.66154	5.55305	4.7496	6.2107
15500	15512	463.395	1.725	-17.709	5.60389	1.65484	5.53064	4.7340	6.1904
15600	15612	463.038	1.368	-17.907	5.58116	1.64816	5.50831	4.7185	6.1701
15700	15712	462.681	1.011	-18.105	5.55874	1.64150	5.48605	4.7031	6.1499
15800	15812	462.325	0.655	-18.303	5.53626	1.63486	5.46386	4.6877	6.1298
15900	15912	461.968	0.298	-18.501	5.51385	1.62824	5.44175	4.6723	6.1097
16000	16012	461.611	-0.059	-18.699	5.49152 + 2	1.62164 + 1	5.41971 - 1	4.6570 - 2	6.0896 - 1
16100	16112	461.255	-0.415	-18.897	5.46925	1.61507	5.39773	4.6417	6.0696
16200	16213	460.898	-0.772	-19.095	5.44707	1.60852	5.37584	4.6264	6.0497
16300	16313	460.542	-1.128	-19.294	5.42495	1.60199	5.35401	4.6112	6.0298
16400	16413	460.185	-1.485	-19.492	5.40291	1.59548	5.33226	4.5961	6.0099
16500	16513	459.828	-1.842	-19.690	5.38094	1.58899	5.31057	4.5809	5.9901
16600	16613	459.472	-2.199	-19.888	5.35904	1.58252	5.28896	4.5658	5.9704
16700	16713	459.115	-2.556	-19.086	5.33722	1.57608	5.26742	4.5508	5.9507
16800	16814	458.759	-2.913	-19.284	5.31546	1.56966	5.24596	4.5357	5.9311
16900	16914	458.402	-3.270	-19.482	5.29378	1.56325	5.22456	4.5207	5.9115
17000	17014	458.045	-3.627	-19.680	5.27217 + 2	1.55687 + 1	5.20323 - 1	4.5058 - 2	5.8919 - 1
17100	17114	457.689	-3.984	-19.879	5.25064	1.55051	5.18197	4.4909	5.8724
17200	17214	457.332	-4.341	-19.077	5.22917	1.54417	5.16079	4.4760	5.8530
17300	17314	456.975	-4.698	-19.275	5.20777	1.53785	5.13967	4.4612	5.8336
17400	17415	456.619	-5.055	-19.473	5.18645	1.53156	5.11863	4.4464	5.8142
17500	17515	456.262	-5.412	-19.671	5.16519	1.52528	5.09765	4.4316	5.7949
17600	17615	455.906	-5.769	-19.869	5.14401	1.51903	5.07674	4.4169	5.7757
17700	17715	455.549	-6.126	-20.067	5.12290	1.51279	5.05591	4.4022	5.7565
17800	17815	455.192	-6.483	-20.265	5.10185	1.50658	5.03514	4.3876	5.7373
17900	17915	454.836	-6.840	-20.463	5.08088	1.50038	5.01444	4.3729	5.7182
18000	18016	454.479	-7.197	-20.662	5.05998 + 2	1.49421 + 1	4.99381 - 1	4.3584 - 2	5.6991 - 1
18100	18116	454.122	-7.554	-20.860	5.03915	1.48806	4.97325	4.3438	5.6801
18200	18216	453.766	-7.911	-21.058	5.01838	1.48195	4.95276	4.3293	5.6612
18300	18316	453.409	-8.268	-21.256	5.00000	1.47582	4.93233	4.3149	5.6423
18400	18416	453.053	-8.625	-21.454	4.98165	1.46973	4.91198	4.3005	5.6234
18500	18516	452.696	-8.982	-21.652	4.96335	1.46366	4.89169	4.2861	5.6046
18600	18617	452.339	-9.339	-21.850	4.94506	1.45761	4.87147	4.2717	5.5858
18700	18717	451.983	-9.696	-22.048	4.92678	1.45158	4.85132	4.2574	5.5671
18800	18817	451.626	-10.053	-22.247	4.90855	1.44557	4.83124	4.2431	5.5484
18900	18917	451.270	-10.410	-22.445	4.89037	1.43958	4.81122	4.2289	5.5298
19000	19017	450.913	-10.767	-22.643	4.87215 + 2	1.43361 + 1	4.79127 - 1	4.2147 - 2	5.5112 - 1
19100	19118	450.556	-11.124	-22.841	4.85391	1.42766	4.77139	4.2005	5.4927
19200	19218	450.200	-11.481	-23.039	4.83568	1.42173	4.75157	4.1864	5.4742
19300	19318	449.843	-11.838	-23.237	4.81745	1.41582	4.73182	4.1723	5.4558
19400	19418	449.487	-12.195	-23.435	4.79921	1.40993	4.71214	4.1582	5.4374
19500	19518	449.130	-12.552	-23.633	4.78098	1.40406	4.69252	4.1442	5.4191
19600	19618	448.773	-12.909	-23.832	4.76278	1.39821	4.67297	4.1302	5.4008
19700	19719	448.417	-13.266	-24.030	4.74457	1.39238	4.65349	4.1163	5.3826
19800	19819	448.060	-13.623	-24.228	4.72637	1.38657	4.63407	4.1024	5.3644
19900	19919	447.703	-13.980	-24.426	4.70818	1.38078	4.61472	4.0885	5.3462
20000	20019	447.347	-14.337	-24.624	4.68998 + 2	1.37501 + 1	4.59543 - 1	4.0746 - 2	5.3281 - 1
20100	20119	446.990	-14.694	-24.822	4.67178	1.36926	4.57621	4.0608	5.3101
20200	20220	446.633	-15.051	-25.020	4.65358	1.36353	4.55705	4.0471	5.2921
20300	20320	446.277	-15.408	-25.218	4.63538	1.35782	4.53796	4.0333	5.2741
20400	20420	445.920	-15.765	-25.416	4.61718	1.35212	4.51894	4.0196	5.2562
20500	20520	445.564	-16.122	-25.615	4.59898	1.34645	4.49997	4.0060	5.2383
20600	20620	445.207	-16.479	-25.813	4.58078	1.34079	4.48108	3.9923	5.2205
20700	20721	444.850	-16.836	-26.011	4.56259	1.33516	4.46224	3.9787	5.2027
20800	20821	444.494	-17.193	-26.209	4.54439	1.32954	4.44347	3.9652	5.1850
20900	20921	444.137	-17.550	-26.407	4.52619	1.32395	4.42477	3.9517	5.1673
21000	21021	443.781	-17.907	-26.605	4.50799 + 2	1.31837 + 1	4.40613 - 1	3.9382 - 2	5.1497 - 1
21100	21121	443.424	-18.264	-26.803	4.48979	1.31281	4.38755	3.9247	5.1321
21200	21222	443.067	-18.621	-27.001	4.47159	1.30727	4.36904	3.9113	5.1145
21300	21322	442.711	-18.978	-27.200	4.45339	1.30175	4.35058	3.8979	5.0970
21400	21422	442.354	-19.335	-27.398	4.43519	1.29622	4.33220	3.8846	5.0796
21500	21522	442.000	-19.692	-27.596	4.41699	1.29070	4.31387	3.8713	5.0622
21600	21622	441.643	-20.049	-27.794	4.39879	1.28518	4.29561	3.8580	5.0448
21700	21723	441.287	-20.406	-27.992	4.38059	1.27965	4.27741	3.8448	5.0275
21800	21823	440.930	-20.763	-28.190	4.36239	1.27413	4.25927	3.8316	5.0102
21900	21923	440.574	-21.120	-28.388	4.34419	1.26862	4.24120	3.8184	4.9930
22000	22023	440.218	-21.477	-28.586	4.32599 + 2	1.26313 + 1	4.22319 - 1	3.8052 - 2	4.9758 - 1
22100	22123	439.861	-21.834	-28.785	4.30779	1.25762	4.20524	3.7921	4.9587
22200	22224	439.505	-22.191	-28.983	4.28959	1.25211	4.18735	3.7791	4.9416
22300	22324	439.148	-22.548	-29.181	4.27139	1.24660	4.16952	3.7660	4.9246
22400	22424	438.792	-22.905	-29.379	4.25319	1.24109	4.15176	3.7530	4.9076
22500	22524	438.435	-23.262	-29.577	4.23499	1.23558	4.13405	3.7401	4.8906
22600	22625	438.079	-23.619	-29.775	4.21679	1.23007	4.11634	3.7271	4.8737
22700	22725	437.722	-23.976	-29.973	4.19859	1.22456	4.09863	3.7143	4.8569
22800	22825	437.366	-24.333	-30.171	4.18039	1.21905	4.08131	3.7014	4.8400
22900	22925	437.009	-24.690	-30.369	4.16219	1.21354	4.06384	3.6886	4.8233

TABLE IV.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
15000	14989	465.216	5.546	-16.697	5.72068 + 2	1.68931 + 1	5.64587 - 1	4.81137 - 2	6.2946 - 1
15100	15089	464.860	5.190	-16.894	5.69770	1.68253	5.62319	4.7981	6.2741
15200	15189	464.504	4.834	-15.092	5.67480	1.67577	5.60059	4.7825	6.2537
15300	15289	464.148	4.478	-15.290	5.65197	1.66903	5.57806	4.7669	6.2333
15400	15389	463.792	4.122	-15.488	5.62921	1.66231	5.55560	4.7513	6.2130
15500	15489	463.436	3.766	-15.686	5.60654	1.65561	5.53322	4.7358	6.1927
15600	15589	463.079	3.410	-15.884	5.58393	1.64893	5.51091	4.7204	6.1725
15700	15689	462.723	3.053	-16.081	5.56140	1.64228	5.48868	4.7049	6.1523
15800	15789	462.367	2.697	-16.279	5.53894	1.63565	5.46651	4.6895	6.1322
15900	15889	462.011	2.34	-16.477	5.51656	1.62904	5.44442	4.6742	6.1121
16000	15989	461.655	1.985	-16.675	5.49425 + 2	1.62245 + 1	5.42241 - 1	4.6589 - 2	6.0921 - 1
16100	16089	461.299	1.629	-16.873	5.47202	1.61589	5.40086	4.6436	6.0721
16200	16189	460.943	1.273	-17.071	5.44975	1.60934	5.37899	4.6284	6.0522
16300	16289	460.587	0.917	-17.268	5.42766	1.60282	5.35679	4.6132	6.0323
16400	16389	460.231	0.561	-17.466	5.40573	1.59632	5.33504	4.5980	6.0125
16500	16489	459.875	0.205	-17.664	5.38380	1.58974	5.31340	4.5829	5.9927
16600	16589	459.519	-0.151	-17.862	5.36193	1.58338	5.29181	4.5678	5.9730
16700	16689	459.163	-0.507	-18.060	5.34013	1.57694	5.27030	4.5528	5.9533
16800	16789	458.807	-0.863	-18.257	5.31840	1.57052	5.24885	4.5378	5.9337
16900	16889	458.451	-1.219	-18.455	5.29675	1.56413	5.22748	4.5228	5.9141
17000	16989	458.095	-1.575	-18.653	5.27516 + 2	1.55775 + 1	5.20618 - 1	4.5079 - 2	5.8946 - 1
17100	17089	457.739	-1.931	-18.851	5.25363	1.55140	5.18495	4.4930	5.8751
17200	17189	457.383	-2.287	-19.049	5.23221	1.54507	5.16379	4.4781	5.8557
17300	17289	457.027	-2.643	-19.246	5.21088	1.53876	5.14270	4.4633	5.8363
17400	17389	456.671	-2.999	-19.444	5.18954	1.53247	5.12168	4.4485	5.8170
17500	17489	456.315	-3.355	-19.642	5.16831	1.52620	5.10072	4.4338	5.7977
17600	17589	455.959	-3.711	-19.840	5.14715	1.51995	5.07984	4.4191	5.7785
17700	17689	455.602	-4.068	-20.038	5.12606	1.51373	5.05903	4.4044	5.7593
17800	17789	455.246	-4.424	-20.235	5.10505	1.50752	5.03829	4.3898	5.7402
17900	17889	454.890	-4.780	-20.433	5.08410	1.50133	5.01761	4.3752	5.7211
18000	17989	454.534	-5.136	-20.631	5.06322 + 2	1.49517 + 1	4.99701 - 1	4.3606 - 2	5.7021 - 1
18100	18089	454.178	-5.492	-20.829	5.04241	1.48902	4.97647	4.3461	5.6831
18200	18189	453.822	-5.848	-21.026	5.02157	1.48290	4.95601	4.3316	5.6642
18300	18289	453.466	-6.204	-21.224	5.00103	1.47680	4.93561	4.3172	5.6453
18400	18389	453.110	-6.559	-21.422	4.98046	1.47071	4.91528	4.3028	5.6265
18500	18489	452.755	-6.915	-21.620	4.95987	1.46464	4.89501	4.2884	5.6077
18600	18589	452.399	-7.271	-21.818	4.93941	1.45861	4.87482	4.2741	5.5889
18700	18689	452.043	-7.627	-22.015	4.91902	1.45258	4.85469	4.2598	5.5702
18800	18789	451.687	-7.983	-22.213	4.89869	1.44658	4.83463	4.2455	5.5516
18900	18889	451.331	-8.339	-22.411	4.87843	1.44060	4.81464	4.2313	5.5330
19000	18989	450.975	-8.695	-22.609	4.85825 + 2	1.43464 + 1	4.79472 - 1	4.2171 - 2	5.5144 - 1
19100	19089	450.619	-9.051	-22.806	4.83812	1.42870	4.77486	4.2030	5.4959
19200	19189	450.263	-9.407	-23.004	4.81807	1.42278	4.75507	4.1889	5.4775
19300	19289	449.907	-9.763	-23.202	4.79809	1.41687	4.73534	4.1748	5.4591
19400	19389	449.551	-10.119	-23.400	4.77817	1.41099	4.71568	4.1608	5.4407
19500	19489	449.195	-10.475	-23.597	4.75832	1.40513	4.69609	4.1468	5.4224
19600	19589	448.839	-10.831	-23.795	4.73853	1.39929	4.67657	4.1328	5.4042
19700	19689	448.483	-11.187	-23.993	4.71881	1.39347	4.65711	4.1189	5.3859
19800	19789	448.127	-11.543	-24.191	4.69916	1.38766	4.63771	4.1050	5.3678
19900	19889	447.771	-11.899	-24.388	4.67958	1.38188	4.61839	4.0911	5.3497
20000	19989	447.415	-12.255	-24.586	4.66006 + 2	1.37612 + 1	4.59912 - 1	4.0773 - 2	5.3316 - 1
20100	20089	447.059	-12.611	-24.784	4.64061	1.37037	4.57993	4.0635	5.3135
20200	20189	446.703	-12.967	-24.982	4.62122	1.36465	4.56079	4.0497	5.2956
20300	20289	446.347	-13.323	-25.179	4.60190	1.35894	4.54173	4.0360	5.2776
20400	20389	445.991	-13.679	-25.377	4.58265	1.35326	4.52272	4.0224	5.2597
20500	20489	445.636	-14.034	-25.575	4.56346	1.34759	4.50379	4.0087	5.2419
20600	20589	445.280	-14.390	-25.772	4.54434	1.34194	4.48491	3.9951	5.2241
20700	20689	444.924	-14.746	-25.970	4.52528	1.33631	4.46610	3.9815	5.2064
20800	20789	444.568	-15.102	-26.168	4.50629	1.33071	4.44736	3.9680	5.1887
20900	20889	444.212	-15.458	-26.366	4.48736	1.32512	4.42868	3.9545	5.1710
21000	20979	443.856	-15.814	-26.563	4.46849 + 2	1.31955 + 1	4.41006 - 1	3.9410 - 2	5.1534 - 1
21100	21079	443.500	-16.170	-26.761	4.44969	1.31399	4.39151	3.9276	5.1358
21200	21179	443.144	-16.526	-26.959	4.43094	1.30846	4.37302	3.9142	5.1183
21300	21279	442.788	-16.882	-27.157	4.41229	1.30295	4.35459	3.9008	5.1008
21400	21379	442.432	-17.238	-27.354	4.39368	1.29745	4.33622	3.8875	5.0834
21500	21479	442.077	-17.593	-27.552	4.37514	1.29198	4.31792	3.8742	5.0660
21600	21579	441.721	-17.949	-27.750	4.35666	1.28652	4.29969	3.8610	5.0487
21700	21679	441.365	-18.305	-27.947	4.33824	1.28108	4.28151	3.8477	5.0314
21800	21779	441.009	-18.661	-28.145	4.31989	1.27566	4.26340	3.8346	5.0142
21900	21879	440.653	-19.017	-28.343	4.30160	1.27026	4.24535	3.8214	4.9970
22000	21977	440.297	-19.373	-28.540	4.28337 + 2	1.26488 + 1	4.22736 - 1	3.8083 - 2	4.9798 - 1
22100	22077	439.941	-19.729	-28.738	4.26520	1.25951	4.20943	3.7952	4.9627
22200	22176	439.585	-20.085	-28.936	4.24710	1.25417	4.19154	3.7822	4.9457
22300	22276	439.230	-20.440	-29.134	4.22906	1.24884	4.17376	3.7691	4.9286
22400	22376	438.874	-20.796	-29.331	4.21109	1.24353	4.15602	3.7562	4.9117
22500	22476	438.518	-21.152	-29.529	4.19317	1.23824	4.13834	3.7432	4.8947
22600	22576	438.162	-21.508	-29.727	4.17532	1.23297	4.12072	3.7303	4.8779
22700	22675	437.806	-21.864	-29.924	4.15753	1.22772	4.10316	3.7174	4.8610
22800	22775	437.450	-22.220	-30.122	4.13980	1.22248	4.08566	3.7046	4.8442
22900	22875	437.095	-22.575	-30.320	4.12213	1.21726	4.06823	3.6918	4.8275

TABLE IV.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
23000	23025	436.643	-23.022	-30.568	4.10006 + 2	1.21075 + 1	4.04645 - 1	3.6758 - 2	4.8065 - 1
23100	23126	436.292	-23.378	-30.768	4.08249	1.20556	4.02911	3.6630	4.7899
23200	23226	435.935	-23.735	-30.968	4.06498	1.20039	4.01183	3.6503	4.7732
23300	23326	435.578	-24.092	-31.168	4.04754	1.19524	3.99461	3.6376	4.7566
23400	23426	435.222	-24.448	-31.368	4.03015	1.19010	3.97745	3.6249	4.7401
23500	23521	434.865	-24.805	-31.558	4.01282	1.18499	3.96035	3.6123	4.7236
23600	23627	434.509	-25.161	-31.754	3.99556	1.17989	3.94331	3.5997	4.7071
23700	23727	434.152	-25.518	-31.954	3.97875	1.17481	3.92633	3.5872	4.6907
23800	23827	433.795	-25.875	-32.153	3.96121	1.16976	3.90941	3.5746	4.6743
23900	23927	433.439	-26.231	-32.351	3.94412	1.16470	3.89255	3.5622	4.6580
24000	24028	433.082	-26.588	-32.549	3.92710 + 2	1.15967 + 1	3.87574 - 1	3.5497 - 2	4.6417 - 1
24100	24128	432.726	-26.944	-32.747	3.91013	1.15466	3.85900	3.5373	4.6254
24200	24228	432.369	-27.301	-32.945	3.89322	1.14967	3.84231	3.5249	4.6092
24300	24328	432.012	-27.658	-33.143	3.87637	1.14469	3.82568	3.5125	4.5931
24400	24429	431.656	-28.014	-33.341	3.85959	1.13974	3.80912	3.5002	4.5770
24500	24529	431.299	-28.371	-33.539	3.84286	1.13480	3.79260	3.4879	4.5609
24600	24629	430.942	-28.728	-33.738	3.82619	1.12987	3.77615	3.4757	4.5449
24700	24729	430.586	-29.084	-33.936	3.80957	1.12497	3.75976	3.4634	4.5289
24800	24830	430.229	-29.441	-34.134	3.79302	1.12008	3.74342	3.4512	4.5129
24900	24930	429.873	-29.797	-34.332	3.77652	1.11521	3.72714	3.4391	4.4970
25000	25030	429.516	-30.154	-34.530	3.76009 + 2	1.11035 + 1	3.71092 - 1	3.4270 - 2	4.4812 - 1
25100	25130	429.159	-30.511	-34.728	3.74371	1.10552	3.69475	3.4149	4.4654
25200	25230	428.803	-30.867	-34.926	3.72739	1.10070	3.67864	3.4028	4.4496
25300	25331	428.446	-31.224	-35.124	3.71112	1.09589	3.66259	3.3908	4.4339
25400	25431	428.090	-31.580	-35.322	3.69492	1.09111	3.64660	3.3788	4.4182
25500	25531	427.733	-31.937	-35.521	3.67877	1.08634	3.63066	3.3668	4.4025
25600	25631	427.376	-32.294	-35.719	3.66267	1.08159	3.61478	3.3549	4.3869
25700	25732	427.020	-32.650	-35.917	3.64664	1.07685	3.59895	3.3430	4.3714
25800	25832	426.663	-33.007	-36.115	3.63066	1.07213	3.58319	3.3311	4.3559
25900	25932	426.306	-33.364	-36.313	3.61474	1.06743	3.56747	3.3193	4.3404
26000	26032	425.950	-33.720	-36.511	3.59888 + 2	1.06275 + 1	3.55181 - 1	3.3075 - 2	4.3250 - 1
26100	26133	425.593	-34.077	-36.709	3.58307	1.05806	3.53621	3.2957	4.3096
26200	26233	425.237	-34.433	-36.907	3.56732	1.05343	3.52067	3.2840	4.2942
26300	26333	424.880	-34.790	-37.106	3.55162	1.04879	3.50518	3.2723	4.2789
26400	26433	424.523	-35.147	-37.304	3.53598	1.04417	3.48974	3.2606	4.2637
26500	26534	424.167	-35.503	-37.502	3.52040	1.03957	3.47436	3.2490	4.2484
26600	26634	423.810	-35.860	-37.700	3.50487	1.03499	3.45904	3.2374	4.2333
26700	26734	423.454	-36.216	-37.898	3.48940	1.03042	3.44377	3.2258	4.2181
26800	26834	423.097	-36.573	-38.096	3.47398	1.02587	3.42855	3.2142	4.2030
26900	26935	422.740	-36.930	-38.294	3.45862	1.02133	3.41339	3.2027	4.1880
27000	27035	422.384	-37.286	-38.492	3.44331 + 2	1.01681 + 1	3.39828 - 1	3.1912 - 2	4.1730 - 1
27100	27135	422.027	-37.643	-38.691	3.42804	1.01230	3.38323	3.1798	4.1580
27200	27236	421.670	-38.000	-38.889	3.41284	1.00782	3.36823	3.1684	4.1430
27300	27336	421.314	-38.356	-39.087	3.39772	1.00335	3.35329	3.1570	4.1282
27400	27436	420.957	-38.713	-39.285	3.38263	9.98889 + 0	3.33839	3.1456	4.1133
27500	27536	420.601	-39.069	-39.483	3.36759	9.98450	3.32356	3.1342	4.0985
27600	27637	420.244	-39.424	-39.681	3.35261	9.98026	3.30877	3.1228	4.0837
27700	27737	419.887	-39.783	-39.879	3.33769	9.97619	3.29406	3.1114	4.0690
27800	27837	419.531	-40.139	-40.077	3.32281	9.97227	3.27936	3.1000	4.0543
27900	27937	419.174	-40.496	-40.275	3.30800	9.96851	3.26474	3.0889	4.0397
28000	28038	418.818	-40.852	-40.474	3.29323 + 2	9.96491 + 0	3.25017 - 1	3.0781 - 2	4.0251 - 1
28100	28138	418.461	-41.209	-40.672	3.27852	9.96147	3.23565	3.0670	4.0105
28200	28238	418.104	-41.565	-40.870	3.26386	9.95818	3.22118	3.0559	3.9960
28300	28338	417.748	-41.922	-41.068	3.24926	9.95495	3.20677	3.0448	3.9815
28400	28439	417.391	-42.279	-41.266	3.23470	9.95179	3.19241	3.0338	3.9670
28500	28539	417.034	-42.636	-41.464	3.22021	9.94868	3.17810	3.0227	3.9526
28600	28639	416.678	-42.992	-41.662	3.20576	9.94560	3.16384	3.0118	3.9383
28700	28740	416.321	-43.349	-41.860	3.19136	9.94241	3.14963	3.0008	3.9240
28800	28840	415.965	-43.705	-42.059	3.17702	9.939174	3.13548	2.9899	3.9097
28900	28940	415.608	-44.062	-42.257	3.16273	9.93595	3.12138	2.9790	3.8954
29000	29040	415.251	-44.419	-42.455	3.14850 + 2	9.29750 + 0	3.10732 - 1	2.9681 - 2	3.8812 - 1
29100	29141	414.895	-44.775	-42.653	3.13431	9.29561	3.09332	2.9573	3.8670
29200	29241	414.538	-45.132	-42.851	3.12018	9.29380	3.07937	2.9465	3.8529
29300	29341	414.182	-45.488	-43.049	3.10609	9.29229	3.06548	2.9357	3.8388
29400	29442	413.825	-45.845	-43.247	3.09206	9.29086	3.05163	2.9250	3.8248
29500	29542	413.468	-46.202	-43.445	3.07800	9.28958	3.03783	2.9143	3.8108
29600	29642	413.112	-46.558	-43.644	3.06416	9.28845	3.02409	2.9036	3.7968
29700	29742	412.755	-46.915	-43.842	3.05028	9.28747	3.01039	2.8929	3.7829
29800	29843	412.398	-47.272	-44.040	3.03645	9.28665	2.99675	2.8823	3.7690
29900	29943	412.042	-47.628	-44.238	3.02266	9.28597	2.98315	2.8717	3.7551
30000	30043	411.685	-47.985	-44.436	3.00895 + 2	8.88544 + 0	2.96961 - 1	2.8611 - 2	3.7413 - 1
30100	30144	411.329	-48.341	-44.634	2.99528	8.88506	2.95611	2.8506	3.7275
30200	30244	410.972	-48.698	-44.832	2.98166	8.88483	2.94267	2.8401	3.7138
30300	30344	410.615	-49.055	-45.030	2.96808	8.74675	2.92927	2.8296	3.7001
30400	30444	410.259	-49.411	-45.228	2.95456	8.72481	2.91592	2.8192	3.6865
30500	30545	409.902	-49.768	-45.427	2.94109	8.68502	2.90263	2.8088	3.6728
30600	30645	409.545	-50.124	-45.625	2.92766	8.64539	2.88938	2.7984	3.6593
30700	30745	409.189	-50.481	-45.823	2.91429	8.60589	2.87618	2.7880	3.6457
30800	30846	408.832	-50.838	-46.021	2.90096	8.56654	2.86303	2.7777	3.6322
30900	30946	408.476	-51.194	-46.219	2.88769	8.52734	2.84993	2.7674	3.6188

TABLE IV.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
23000	22975	436.739	-22.951	-30.517	4.10452 + 2	1.21206 + 1	4.05085 - 1	3.6790 - 2	4.8108 - 1
23100	23074	436.383	-23.287	-30.715	4.08698	1.20688	4.03353	3.6665	4.7941
23200	23174	436.027	-23.643	-30.913	4.06949	1.20172	4.01628	3.6536	4.7775
23300	23274	435.671	-23.999	-31.110	4.05207	1.19657	3.99908	3.6409	4.7609
23400	23374	435.315	-24.355	-31.308	4.03470	1.19145	3.98194	3.6283	4.7444
23500	23474	434.960	-24.710	-31.506	4.01740	1.18633	3.96487	3.6156	4.7279
23600	23573	434.604	-25.066	-31.703	4.00016	1.18125	3.94785	3.6031	4.7115
23700	23673	434.248	-25.422	-31.901	3.98298	1.17617	3.93089	3.5905	4.6951
23800	23773	433.892	-25.778	-32.099	3.96585	1.17112	3.91399	3.5780	4.6787
23900	23873	433.536	-26.134	-32.296	3.94879	1.16608	3.89715	3.5656	4.6624
24000	23972	433.181	-26.489	-32.494	3.93179 + 2	1.16106 + 1	3.88037 - 1	3.5531 - 2	4.6462 - 1
24100	24072	432.825	-26.845	-32.692	3.91484	1.15605	3.86365	3.5407	4.6300
24200	24172	432.469	-27.201	-32.889	3.89796	1.15107	3.84699	3.5284	4.6138
24300	24272	432.113	-27.557	-33.087	3.88113	1.14610	3.83038	3.5160	4.5976
24400	24371	431.757	-27.913	-33.284	3.86437	1.14115	3.81383	3.5037	4.5814
24500	24471	431.402	-28.268	-33.482	3.84766	1.13621	3.79735	3.4914	4.5655
24600	24571	431.046	-28.624	-33.680	3.83101	1.13130	3.78091	3.4792	4.5495
24700	24671	430.690	-28.980	-33.878	3.81442	1.12640	3.76454	3.4670	4.5336
24800	24771	430.334	-29.336	-34.075	3.79789	1.12152	3.74823	3.4548	4.5176
24900	24870	429.979	-29.691	-34.273	3.78142	1.11665	3.73197	3.4427	4.5018
25000	24970	429.623	-30.047	-34.471	3.76500 + 2	1.11180 + 1	3.71577 - 1	3.4306 - 2	4.4859 - 1
25100	25070	429.267	-30.403	-34.668	3.74864	1.10697	3.69962	3.4185	4.4701
25200	25170	428.911	-30.759	-34.866	3.73234	1.10216	3.68356	3.4065	4.4546
25300	25269	428.555	-31.115	-35.064	3.71610	1.09736	3.66751	3.3945	4.4387
25400	25369	428.200	-31.470	-35.261	3.69992	1.09259	3.65153	3.3825	4.4230
25500	25469	427.844	-31.826	-35.459	3.68379	1.08782	3.63562	3.3705	4.4074
25600	25569	427.488	-32.182	-35.657	3.66772	1.08308	3.61976	3.3586	4.3918
25700	25668	427.132	-32.538	-35.854	3.65171	1.07835	3.60395	3.3467	4.3763
25800	25768	426.777	-32.893	-36.052	3.63575	1.07364	3.58821	3.3349	4.3608
25900	25868	426.421	-33.249	-36.249	3.61985	1.06894	3.57251	3.3231	4.3454
26000	25968	426.065	-33.605	-36.447	3.60401 + 2	1.06426 + 1	3.55688 - 1	3.3113 - 2	4.3300 - 1
26100	26067	425.710	-33.960	-36.645	3.58822	1.05960	3.54130	3.2996	4.3146
26200	26167	425.354	-34.316	-36.842	3.57249	1.05496	3.52577	3.2878	4.2993
26300	26267	424.998	-34.672	-37.040	3.55681	1.05033	3.51030	3.2762	4.2840
26400	26367	424.642	-35.028	-37.238	3.54119	1.04571	3.49489	3.2645	4.2688
26500	26466	424.287	-35.383	-37.435	3.52563	1.04112	3.47953	3.2529	4.2536
26600	26566	423.931	-35.739	-37.633	3.51012	1.03654	3.46422	3.2413	4.2384
26700	26666	423.575	-36.095	-37.830	3.49467	1.03198	3.44897	3.2297	4.2233
26800	26766	423.220	-36.450	-38.028	3.47927	1.02743	3.43378	3.2182	4.2082
26900	26865	422.864	-36.806	-38.226	3.46393	1.02290	3.41864	3.2067	4.1932
27000	26965	422.508	-37.162	-38.423	3.44865 + 2	1.01838 + 1	3.40355 - 1	3.1952 - 2	4.1782 - 1
27100	27065	422.152	-37.519	-38.621	3.43341	1.01389	3.38852	3.1836	4.1632
27200	27165	421.797	-37.875	-38.818	3.41824	1.00941	3.37354	3.1724	4.1483
27300	27264	421.441	-38.229	-39.016	3.40311	1.00494	3.35861	3.1610	4.1335
27400	27364	421.085	-38.585	-39.214	3.38805	1.00049	3.34374	3.1497	4.1186
27500	27464	420.730	-38.940	-39.411	3.37303	9.996056 + 0	3.32892	3.1384	4.1039
27600	27564	420.374	-39.296	-39.609	3.35807	9.991638	3.31416	3.1271	4.0891
27700	27663	420.018	-39.652	-39.806	3.34317	9.987236	3.29945	3.1159	4.0744
27800	27763	419.663	-40.007	-40.004	3.32831	9.982850	3.28479	3.1047	4.0597
27900	27863	419.307	-40.363	-40.202	3.31351	9.978480	3.27018	3.0935	4.0451
28000	27962	418.951	-40.719	-40.399	3.29877 + 2	9.974126 + 0	3.25561 - 1	3.0825 - 2	4.0305 - 1
28100	28062	418.596	-41.074	-40.597	3.28408	9.969788	3.24115	3.0712	4.0160
28200	28162	418.240	-41.430	-40.794	3.26944	9.965465	3.22688	3.0601	4.0015
28300	28262	417.884	-41.786	-40.992	3.25485	9.961157	3.21229	3.0491	3.9870
28400	28361	417.529	-42.141	-41.190	3.24032	9.956866	3.19795	3.0380	3.9724
28500	28461	417.173	-42.497	-41.387	3.22584	9.952590	3.18366	3.0270	3.9582
28600	28561	416.818	-42.852	-41.585	3.21141	9.948329	3.16942	3.0161	3.9439
28700	28661	416.462	-43.208	-41.782	3.19704	9.944084	3.15523	3.0051	3.9296
28800	28760	416.106	-43.564	-41.980	3.18271	9.939855	3.14109	2.9942	3.9153
28900	28860	415.751	-43.919	-42.177	3.16844	9.935641	3.12701	2.9833	3.9011
29000	28960	415.395	-44.275	-42.375	3.15422 + 2	9.931442 + 0	3.11298 - 1	2.9725 - 2	3.8869 - 1
29100	29059	415.039	-44.631	-42.573	3.14006	9.927258	3.09899	2.9617	3.8728
29200	29159	414.684	-44.986	-42.770	3.12594	9.923090	3.08504	2.9509	3.8587
29300	29259	414.328	-45.342	-42.968	3.11188	9.918937	3.07118	2.9401	3.8446
29400	29359	413.972	-45.697	-43.165	3.09787	9.914799	3.05736	2.9294	3.8306
29500	29458	413.617	-46.053	-43.363	3.08390	9.910677	3.04358	2.9187	3.8166
29600	29558	413.261	-46.409	-43.560	3.06999	9.906569	3.02985	2.9081	3.8027
29700	29658	412.906	-46.764	-43.758	3.05614	9.902476	3.01617	2.8974	3.7888
29800	29757	412.550	-47.120	-43.956	3.04233	8.998399	3.00254	2.8868	3.7749
29900	29857	412.194	-47.476	-44.153	3.02857	8.994336	2.98897	2.8762	3.7611
30000	29957	411.839	-47.831	-44.351	3.01486 + 2	8.990289 + 0	2.97544 - 1	2.8657 - 2	3.7473 - 1
30100	30057	411.483	-48.187	-44.548	3.00121	8.986256	2.96196	2.8552	3.7335
30200	30156	411.128	-48.542	-44.746	2.98760	8.982238	2.94853	2.8447	3.7198
30300	30256	410.772	-48.898	-44.943	2.97404	8.978235	2.93515	2.8342	3.7061
30400	30356	410.417	-49.254	-45.141	2.96054	8.974247	2.92182	2.8238	3.6925
30500	30455	410.061	-49.609	-45.338	2.94708	8.970273	2.90854	2.8134	3.6789
30600	30555	409.705	-49.965	-45.536	2.93368	8.966316	2.89531	2.8030	3.6653
30700	30655	409.350	-50.320	-45.733	2.92023	8.962370	2.88213	2.7927	3.6518
30800	30755	408.994	-50.676	-45.931	2.90701	8.958440	2.86900	2.7824	3.6383
30900	30854	408.639	-51.031	-46.128	2.89375	8.954525	2.85591	2.7721	3.6249

TABLE IV.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
31000	31046	40.119	-51.551	-46.417	2.87446 * 2	8.48829 * 0	2.81687 - 1	2.7571 - 2	3.6053 - 1
31100	31146	407.762	-51.908	-46.615	2.86129	8.44958	2.82187	2.7469	3.5919
31200	31247	407.406	-52.264	-46.813	2.84816	8.41061	2.81091	2.7367	3.5786
31300	31347	407.049	-52.621	-47.012	2.83508	8.37199	2.79801	2.7265	3.5653
31400	31447	406.693	-52.977	-47.210	2.82205	8.33351	2.78515	2.7164	3.5520
31500	31548	406.336	-53.334	-47.408	2.80907	8.29517	2.77233	2.7062	3.5388
31600	31648	405.979	-53.691	-47.606	2.79613	8.25696	2.75957	2.6961	3.5256
31700	31748	405.623	-54.047	-47.804	2.78325	8.21895	2.74685	2.6861	3.5124
31800	31849	405.266	-54.404	-48.002	2.77041	8.18102	2.73418	2.6760	3.4993
31900	31949	404.909	-54.761	-48.200	2.75762	8.14326	2.72156	2.6660	3.4862
32000	32049	404.553	-55.117	-48.398	2.74485 * 2	8.10563 * 0	2.70899 - 1	2.6561 - 2	3.4731 - 1
32100	32149	404.196	-55.474	-48.597	2.73219	8.06815	2.69646	2.6461	3.4601
32200	32250	403.840	-55.830	-48.795	2.71954	8.03081	2.68398	2.6352	3.4472
32300	32350	403.483	-56.187	-48.993	2.70694	7.99360	2.67155	2.6253	3.4342
32400	32450	403.126	-56.544	-49.191	2.69439	7.95654	2.65916	2.6164	3.4215
32500	32551	402.770	-56.900	-49.389	2.68189	7.91961	2.64682	2.6066	3.4085
32600	32651	402.413	-57.257	-49.587	2.66943	7.88283	2.63452	2.5968	3.3956
32700	32751	402.057	-57.613	-49.785	2.65702	7.84618	2.62229	2.5870	3.3828
32800	32852	401.700	-57.970	-49.983	2.64466	7.80967	2.61008	2.5773	3.3701
32900	32952	401.343	-58.327	-50.181	2.63234	7.77330	2.59792	2.5675	3.3574
33000	33052	400.987	-58.683	-50.380	2.62007 * 2	7.73707 * 0	2.58581 - 1	2.5578 - 2	3.3447 - 1
33100	33153	400.630	-59.040	-50.578	2.60785	7.70097	2.57375	2.5482	3.3321
33200	33253	400.273	-59.397	-50.776	2.59567	7.66501	2.56173	2.5385	3.3195
33300	33353	399.917	-59.753	-50.974	2.58354	7.62919	2.54975	2.5289	3.3069
33400	33454	399.560	-60.110	-51.172	2.57145	7.59350	2.53781	2.5193	3.2944
33500	33554	399.204	-60.466	-51.370	2.55941	7.55794	2.52594	2.5098	3.2819
33600	33654	398.847	-60.823	-51.568	2.54742	7.52253	2.51411	2.5003	3.2694
33700	33755	398.490	-61.180	-51.766	2.53547	7.48724	2.50232	2.4908	3.2570
33800	33855	398.134	-61.536	-51.965	2.52357	7.45209	2.49057	2.4813	3.2446
33900	33955	397.777	-61.893	-52.163	2.51171	7.41708	2.47887	2.4718	3.2322
34000	34056	397.421	-62.249	-52.361	2.49990 * 2	7.38219 * 0	2.46721 - 1	2.4624 - 2	3.2199 - 1
34100	34156	397.064	-62.606	-52.559	2.48813	7.34744	2.45559	2.4550	3.2077
34200	34256	396.707	-62.963	-52.757	2.47641	7.31283	2.44402	2.4437	3.1954
34300	34357	396.351	-63.319	-52.955	2.46473	7.27836	2.43250	2.4343	3.1832
34400	34457	395.994	-63.676	-53.153	2.45310	7.24399	2.42102	2.4250	3.1710
34500	34557	395.637	-64.033	-53.351	2.44151	7.20977	2.40958	2.4157	3.1589
34600	34658	395.281	-64.389	-53.550	2.42996	7.17568	2.39819	2.4065	3.1468
34700	34758	394.924	-64.746	-53.748	2.41846	7.14172	2.38684	2.3973	3.1347
34800	34858	394.568	-65.102	-53.946	2.40701	7.10789	2.37555	2.3881	3.1227
34900	34959	394.211	-65.459	-54.144	2.39559	7.07419	2.36427	2.3789	3.1107
35000	35059	393.854	-65.816	-54.342	2.38423 * 2	7.04062 * 0	2.35305 - 1	2.3697 - 2	3.0987 - 1
35100	35160	393.497	-66.173	-54.540	2.37292	6.99738	2.34178	2.3515	3.0867
35200	35260	393.140	-66.530	-54.738	2.36162	6.95436	2.33054	2.3403	3.0747
35300	35360	392.783	-66.887	-54.936	2.35039	6.91154	2.31932	2.3291	3.0627
35400	35461	392.426	-67.244	-55.134	2.33919	6.86899	2.30813	2.3179	3.0507
35500	35561	392.069	-67.601	-55.332	2.32802	6.82667	2.29696	2.3067	3.0387
35600	35662	391.712	-67.958	-55.530	2.31689	6.78454	2.28581	2.2955	3.0267
35700	35762	391.355	-68.315	-55.728	2.30579	6.74264	2.27467	2.2843	3.0147
35800	35863	390.998	-68.672	-55.926	2.29472	6.70094	2.26355	2.2732	3.0027
35900	35963	390.641	-69.029	-56.124	2.28369	6.65944	2.25245	2.2620	2.9907
36000	36064	390.284	-69.386	-56.322	2.27270	6.61814	2.24137	2.2509	2.9787
36100	36164	389.927	-69.743	-56.520	2.26175	6.57704	2.23032	2.2398	2.9667
36200	36265	389.570	-70.100	-56.718	2.25084	6.53614	2.21929	2.2288	2.9547
36300	36365	389.213	-70.457	-56.916	2.24000	6.49544	2.20829	2.2178	2.9427
36400	36466	388.856	-70.814	-57.114	2.22922	6.45494	2.19732	2.2068	2.9307
36500	36566	388.499	-71.171	-57.312	2.21849	6.41464	2.18639	2.1958	2.9187
36600	36667	388.142	-71.528	-57.510	2.20781	6.37454	2.17549	2.1849	2.9067
36700	36767	387.785	-71.885	-57.708	2.19718	6.33464	2.16462	2.1740	2.8947
36800	36868	387.428	-72.242	-57.906	2.18660	6.29494	2.15378	2.1631	2.8827
36900	36968	387.071	-72.599	-58.104	2.17607	6.25544	2.14296	2.1522	2.8707
37000	37069	386.714	-72.956	-58.302	2.16559	6.21614	2.13217	2.1415	2.8587
37100	37169	386.357	-73.313	-58.500	2.15516	6.17699	2.12141	2.1308	2.8467
37200	37270	385.999	-73.670	-58.698	2.14479	6.13804	2.11067	2.1202	2.8347
37300	37370	385.642	-74.027	-58.896	2.13447	6.09929	2.10000	2.1096	2.8227
37400	37471	385.285	-74.384	-59.094	2.12420	6.06074	2.08936	2.0990	2.8107
37500	37571	384.928	-74.741	-59.292	2.11397	6.02239	2.07875	2.0883	2.7987
37600	37672	384.571	-75.098	-59.490	2.10379	5.98424	2.06817	2.0778	2.7867
37700	37772	384.214	-75.455	-59.688	2.09366	5.94629	2.05762	2.0673	2.7747
37800	37873	383.857	-75.812	-59.886	2.08358	5.90854	2.04710	2.0568	2.7627
37900	37973	383.499	-76.169	-60.084	2.07355	5.87099	2.03661	2.0463	2.7507
38000	38074	383.142	-76.526	-60.282	2.06357	5.83364	2.02615	2.0358	2.7387
38100	38174	382.785	-76.883	-60.480	2.05364	5.79649	2.01572	2.0254	2.7267
38200	38275	382.428	-77.240	-60.678	2.04376	5.75954	2.00532	2.0150	2.7147
38300	38375	382.071	-77.597	-60.876	2.03393	5.72279	1.99495	2.0046	2.7027
38400	38476	381.714	-77.954	-61.074	2.02415	5.68624	1.98461	1.9942	2.6907
38500	38576	381.357	-78.311	-61.272	2.01442	5.64989	1.97429	1.9839	2.6787
38600	38677	380.999	-78.668	-61.470	2.00474	5.61374	1.96399	1.9736	2.6667
38700	38777	380.642	-79.025	-61.668	1.99511	5.57779	1.95372	1.9633	2.6547
38800	38878	380.285	-79.382	-61.866	1.98553	5.54204	1.94348	1.9530	2.6427
38900	38978	379.928	-79.739	-62.064	1.97600	5.50649	1.93327	1.9427	2.6307
39000	39079	379.571	-80.096	-62.262	1.96652	5.47114	1.92308	1.9324	2.6187
39100	39179	379.214	-80.453	-62.460	1.95709	5.43609	1.91291	1.9221	2.6067
39200	39280	378.857	-80.810	-62.658	1.94771	5.40124	1.90276	1.9118	2.5947
39300	39380	378.499	-81.167	-62.856	1.93838	5.36659	1.89263	1.9015	2.5827
39400	39481	378.142	-81.524	-63.054	1.92910	5.33214	1.88252	1.8912	2.5707
39500	39581	377.785	-81.881	-63.252	1.91987	5.29789	1.87243	1.8810	2.5587
39600	39682	377.428	-82.238	-63.450	1.91069	5.26384	1.86236	1.8708	2.5467
39700	39782	377.071	-82.595	-63.648	1.90156	5.22999	1.85231	1.8608	2.5347
39800	39883	376.714	-82.952	-63.846	1.89248	5.19634	1.84228	1.8508	2.5227
39900	39983	376.357	-83.309	-64.044	1.88345	5.16289	1.83226	1.8408	2.5107
40000	40084	375.999	-83.666	-64.242	1.87447	5.12964	1.82226	1.8308	2.4987
40100	40184	375.642	-84.023	-64.440	1.86554	5.09659	1.81228	1.8208	2.4867
40200	40285	375.285	-84.380	-64.638	1.85666	5.06374	1.80232	1.8108	2.4747
40300	40385	374.928	-84.737	-64.836	1.84783	5.03109	1.79238	1.8008	2.4627
40400	40486	374.571	-85.094	-65.034	1.83905	5.00000	1.78246	1.7908	2.4507
40500	40586	374.214	-85.451	-65.232	1.83032	4.96909	1.77256	1.7808	2.4387
40600	40687	373.857	-85.808	-65.430	1.82164	4.93834	1.76268	1.7708	2.4267
40700	40787	373.499	-86.165	-65.628	1.81301	4.90775	1.75282	1.7608	2.4147
40800	40888	373.142	-86.522	-65.826	1.80443	4.87731	1.74298	1.7508	2.4027
40900	40988	372.785	-86.879	-66.024	1.79590	4.84701	1.73316	1.7408	2.3907
41000	41089	372.428	-87.236	-66.222	1.78743	4.81686	1.72336	1.7308	2.3787
41100	41189	372.071	-87.593	-66.420	1.77901	4.78686	1.71358	1.7208	2.3667
41200	41290	371							

TABLE IX - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	M, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
31000	30954	409.283	-51.387	-56.326	2.64654 × 2	0.30624 × 0	2.04280 - 1	2.7619 - 2	3.6115 - 1
31100	31054	407.928	-51.762	-56.529	2.64730	0.306730	2.04200	2.7516	3.5981
31200	31153	407.578	-52.098	-56.721	2.64805	0.30720	2.04120	2.7413	3.5848
31300	31253	407.214	-52.404	-56.919	2.64881	0.30769	2.04040	2.7313	3.5715
31400	31353	406.861	-52.699	-57.116	2.64958	0.30816	2.03960	2.7212	3.5583
31500	31452	406.505	-52.985	-57.316	2.65035	0.30863	2.03880	2.7112	3.5450
31600	31552	406.150	-53.270	-57.511	2.65112	0.30910	2.03800	2.7012	3.5319
31700	31652	405.794	-53.554	-57.709	2.65189	0.30957	2.03720	2.6912	3.5187
31800	31752	405.438	-53.838	-57.906	2.65266	0.31004	2.03640	2.6812	3.5056
31900	31851	405.083	-54.121	-58.102	2.65343	0.31051	2.03560	2.6712	3.4926
32000	31951	404.728	-54.402	-58.298	2.65420	0.31098	2.03480	2.6612	3.4795
32100	32051	404.372	-54.682	-58.490	2.65497	0.31145	2.03400	2.6512	3.4665
32200	32150	404.017	-54.963	-58.682	2.65574	0.31192	2.03320	2.6412	3.4535
32300	32250	403.661	-55.243	-58.874	2.65651	0.31239	2.03240	2.6312	3.4405
32400	32350	403.306	-55.524	-59.069	2.65728	0.31286	2.03160	2.6212	3.4275
32500	32449	402.950	-55.804	-59.260	2.65805	0.31333	2.03080	2.6112	3.4145
32600	32549	402.595	-56.085	-59.456	2.65882	0.31380	2.03000	2.6012	3.4015
32700	32649	402.239	-56.365	-59.648	2.65959	0.31427	2.02920	2.5912	3.3885
32800	32748	401.884	-56.646	-59.844	2.66036	0.31474	2.02840	2.5812	3.3755
32900	32848	401.528	-56.926	-59.079	2.66113	0.31521	2.02760	2.5712	3.3625
33000	32948	401.173	-57.207	-59.276	2.66190	0.31568	2.02680	2.5612	3.3495
33100	33048	400.817	-57.487	-59.472	2.66267	0.31615	2.02600	2.5512	3.3365
33200	33147	400.462	-57.768	-59.671	2.66344	0.31662	2.02520	2.5412	3.3235
33300	33247	400.106	-58.048	-59.869	2.66421	0.31709	2.02440	2.5312	3.3105
33400	33347	399.751	-58.329	-59.066	2.66498	0.31756	2.02360	2.5212	3.2975
33500	33446	399.395	-58.610	-59.263	2.66575	0.31803	2.02280	2.5112	3.2845
33600	33546	399.040	-58.891	-59.460	2.66652	0.31850	2.02200	2.5012	3.2715
33700	33646	398.684	-59.172	-59.656	2.66729	0.31897	2.02120	2.4912	3.2585
33800	33745	398.329	-59.453	-59.853	2.66806	0.31944	2.02040	2.4812	3.2455
33900	33845	397.973	-59.734	-59.050	2.66883	0.31991	2.01960	2.4712	3.2325
34000	33945	397.618	-60.015	-59.247	2.66960	0.32038	2.01880	2.4612	3.2195
34100	34044	397.262	-60.296	-59.444	2.67037	0.32085	2.01800	2.4512	3.2065
34200	34144	396.907	-60.577	-59.641	2.67114	0.32132	2.01720	2.4412	3.1935
34300	34244	396.552	-60.858	-59.838	2.67191	0.32179	2.01640	2.4312	3.1805
34400	34343	396.196	-61.139	-59.035	2.67268	0.32226	2.01560	2.4212	3.1675
34500	34443	395.841	-61.420	-59.232	2.67345	0.32273	2.01480	2.4112	3.1545
34600	34543	395.485	-61.701	-59.429	2.67422	0.32320	2.01400	2.4012	3.1415
34700	34642	395.130	-61.982	-59.626	2.67499	0.32367	2.01320	2.3912	3.1285
34800	34742	394.774	-62.263	-59.823	2.67576	0.32414	2.01240	2.3812	3.1155
34900	34842	394.419	-62.544	-59.020	2.67653	0.32461	2.01160	2.3712	3.1025
35000	34941	394.064	-62.825	-59.217	2.67730	0.32508	2.01080	2.3612	3.0895
35100	35041	393.708	-63.106	-59.414	2.67807	0.32555	2.01000	2.3512	3.0765
35200	35141	393.353	-63.387	-59.611	2.67884	0.32602	2.00920	2.3412	3.0635
35300	35241	393.000	-63.668	-59.808	2.67961	0.32649	2.00840	2.3312	3.0505
35400	35340	392.645	-63.949	-60.005	2.68038	0.32696	2.00760	2.3212	3.0375
35500	35440	392.290	-64.230	-60.202	2.68115	0.32743	2.00680	2.3112	3.0245
35600	35540	391.935	-64.511	-60.399	2.68192	0.32790	2.00600	2.3012	3.0115
35700	35640	391.580	-64.792	-60.596	2.68269	0.32837	2.00520	2.2912	3.0085
35800	35740	391.225	-65.073	-60.793	2.68346	0.32884	2.00440	2.2812	3.0055
35900	35840	390.870	-65.354	-60.990	2.68423	0.32931	2.00360	2.2712	3.0025
36000	35940	390.515	-65.635	-61.187	2.68500	0.32978	2.00280	2.2612	3.0085
36100	36040	390.160	-65.916	-61.384	2.68577	0.33025	2.00200	2.2512	3.0055
36200	36140	389.805	-66.197	-61.581	2.68654	0.33072	2.00120	2.2412	3.0025
36300	36240	389.450	-66.478	-61.778	2.68731	0.33119	2.00040	2.2312	3.0085
36400	36340	389.095	-66.759	-61.975	2.68808	0.33166	2.00000	2.2212	3.0055
36500	36440	388.740	-67.040	-62.172	2.68885	0.33213	2.00000	2.2112	3.0025
36600	36540	388.385	-67.321	-62.369	2.68962	0.33260	2.00000	2.2012	3.0085
36700	36640	388.030	-67.602	-62.566	2.69039	0.33307	2.00000	2.1912	3.0055
36800	36740	387.675	-67.883	-62.763	2.69116	0.33354	2.00000	2.1812	3.0025
36900	36840	387.320	-68.164	-62.960	2.69193	0.33401	2.00000	2.1712	3.0085
37000	36940	386.965	-68.445	-63.157	2.69270	0.33448	2.00000	2.1612	3.0055
37100	37040	386.610	-68.726	-63.354	2.69347	0.33495	2.00000	2.1512	3.0025
37200	37140	386.255	-69.007	-63.551	2.69424	0.33542	2.00000	2.1412	3.0085
37300	37240	385.900	-69.288	-63.748	2.69501	0.33589	2.00000	2.1312	3.0055
37400	37340	385.545	-69.569	-63.945	2.69578	0.33636	2.00000	2.1212	3.0025
37500	37440	385.190	-69.850	-64.142	2.69655	0.33683	2.00000	2.1112	3.0085
37600	37540	384.835	-70.131	-64.339	2.69732	0.33730	2.00000	2.1012	3.0055
37700	37640	384.480	-70.412	-64.536	2.69809	0.33777	2.00000	2.0912	3.0025
37800	37740	384.125	-70.693	-64.733	2.69886	0.33824	2.00000	2.0812	3.0085
37900	37840	383.770	-70.974	-64.930	2.69963	0.33871	2.00000	2.0712	3.0055
38000	37940	383.415	-71.255	-65.127	2.70040	0.33918	2.00000	2.0612	3.0025
38100	38040	383.060	-71.536	-65.324	2.70117	0.33965	2.00000	2.0512	3.0085
38200	38140	382.705	-71.817	-65.521	2.70194	0.34012	2.00000	2.0412	3.0055
38300	38240	382.350	-72.098	-65.718	2.70271	0.34059	2.00000	2.0312	3.0025
38400	38340	382.000	-72.379	-65.915	2.70348	0.34106	2.00000	2.0212	3.0085
38500	38440	381.645	-72.660	-66.112	2.70425	0.34153	2.00000	2.0112	3.0055
38600	38540	381.290	-72.941	-66.309	2.70502	0.34200	2.00000	2.0012	3.0025
38700	38640	380.935	-73.222	-66.506	2.70579	0.34247	2.00000	2.0012	3.0085
38800	38740	380.580	-73.503	-66.703	2.70656	0.34294	2.00000	2.0012	3.0055
38900	38840	380.225	-73.784	-66.900	2.70733	0.34341	2.00000	2.0012	3.0025
39000	38940	379.870	-74.065	-67.097	2.70810	0.34388	2.00000	2.0012	3.0085
39100	39040	379.515	-74.346	-67.294	2.70887	0.34435	2.00000	2.0012	3.0055
39200	39140	379.160	-74.627	-67.491	2.70964	0.34482	2.00000	2.0012	3.0025
39300	39240	378.805	-74.908	-67.688	2.71041	0.34529	2.00000	2.0012	3.0085
39400	39340	378.450	-75.189	-67.885	2.71118	0.34576	2.00000	2.0012	3.0055
39500	39440	378.095	-75.470	-68.082	2.71195	0.34623	2.00000	2.0012	3.0025
39600	39540	377.740	-75.751	-68.279	2.71272	0.34670	2.00000	2.0012	3.0085
39700	39640	377.385	-76.032	-68.476	2.71349	0.34717	2.00000	2.0012	3.0055
39800	39740	377.030	-76.313	-68.673	2.71426	0.34764	2.00000	2.0012	3.0025
39900	39840	376.675	-76.594	-68.870	2.71503	0.34811	2.00000	2.0012	3.0085
40000	39940	376.320	-76.875	-69.067	2.71580	0.34858	2.00000	2.0012	3.0055
40100	40040	375.965	-77.156	-69.264	2.71657	0.34905	2.00000	2.0012	3.0025
40200	40140	375.610	-77.437	-69.461	2.71734	0.34952	2.00000	2.0012	3.0085
40300	40240	375.255	-77.718	-69.658	2.71811	0.34999	2.00000	2.0012	3.0055
40400	40340	374.900	-78.000	-69.855	2.71888	0.35046	2.00000	2.0012	3.0025
40500	40440	374.545	-78.281	-70.052	2.71965	0.35093	2.00000	2.0012	3.0085
40600	40540	374.190	-78.562	-70.249	2.72042	0.35140	2.00000	2.0012	3.0055
40700	40640	373.835	-78.843	-70.446	2.72119	0.35187	2.00000	2.0012	3.0025
40800	40740	373.480	-79.124	-70.643	2.72196	0.35234	2.00000	2.0012	3.0085
40900	40840	373.125	-79.405	-70.840	2.72273	0.35281	2.00000	2.0012	3.0055
41000	40940	372.770	-79.686	-71.037	2.72350	0.35328	2.00000	2.0012	3.0025
41100	41040	372.415	-79.967	-71.234	2.72427	0.35375	2.00000	2.0012	3.0085
41200	41140	372.060	-80.248	-71.431	2.72504	0.35422	2.		

TABLE 16 - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °K	T, °F	T, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
41000	41000	300.070	-69.700	-54.500	1.62357 * 2	0.70620 * 0	1.66236 - 1	1.6090 - 2	2.1311 - 1
41500	41500	300.070	-69.700	-54.500	1.62021	0.70552	1.56701	1.6162	2.1100
42000	42000	300.070	-69.700	-54.500	1.61725	0.70510	1.57102	1.5987	2.0906
42500	42500	300.070	-69.700	-54.500	1.61461	0.70460	1.55670	1.5835	2.0704
43000	43000	300.070	-69.700	-54.500	1.61233	0.70410	1.54100	1.5683	2.0520
43500	43500	300.070	-69.700	-54.500	1.61038	0.70361	1.52716	1.5535	2.0341
44000	44000	300.070	-69.700	-54.500	1.60875	0.70310	1.51255	1.5390	2.0177
44500	44500	300.070	-69.700	-54.500	1.60741	0.70260	1.49822	1.5253	1.9925
45000	45000	300.070	-69.700	-54.500	1.60635	0.70210	1.48375	1.5091	1.9734
45500	45500	300.070	-69.700	-54.500	1.60551	0.70160	1.46950	1.4947	1.9555
46000	46000	300.070	-69.700	-54.500	1.60486	0.70110	1.45540	1.4804	1.9358
46500	46500	300.070	-69.700	-54.500	1.60440	0.70060	1.44150	1.4662	1.9179
47000	47000	300.070	-69.700	-54.500	1.60400	0.70010	1.42776	1.4522	1.8990
47500	47500	300.070	-69.700	-54.500	1.60375	0.69960	1.41411	1.4383	1.8800
48000	48000	300.070	-69.700	-54.500	1.60355	0.69910	1.40058	1.4246	1.8620
48500	48500	300.070	-69.700	-54.500	1.60340	0.69860	1.38718	1.4110	1.8450
49000	49000	300.070	-69.700	-54.500	1.60330	0.69810	1.37391	1.3977	1.8273
49500	49500	300.070	-69.700	-54.500	1.60325	0.69760	1.36076	1.3846	1.8099
50000	50000	300.070	-69.700	-54.500	1.60325	0.69710	1.34775	1.3708	1.7925
50500	50500	300.070	-69.700	-54.500	1.60330	0.69660	1.33485	1.3577	1.7750
51000	51000	300.070	-69.700	-54.500	1.60340	0.69610	1.32208	1.3447	1.7580
51500	51500	300.070	-69.700	-54.500	1.60355	0.69560	1.30945	1.3316	1.7410
52000	52000	300.070	-69.700	-54.500	1.60375	0.69510	1.29695	1.3186	1.7240
52500	52500	300.070	-69.700	-54.500	1.60400	0.69460	1.28458	1.3056	1.7070
53000	53000	300.070	-69.700	-54.500	1.60425	0.69410	1.27232	1.2926	1.6902
53500	53500	300.070	-69.700	-54.500	1.60455	0.69360	1.26018	1.2796	1.6735
54000	54000	300.070	-69.700	-54.500	1.60490	0.69310	1.24815	1.2666	1.6569
54500	54500	300.070	-69.700	-54.500	1.60525	0.69260	1.23622	1.2537	1.6402
55000	55000	300.070	-69.700	-54.500	1.60565	0.69210	1.22440	1.2408	1.6237
55500	55500	300.070	-69.700	-54.500	1.60610	0.69160	1.21268	1.2280	1.6072
56000	56000	300.070	-69.700	-54.500	1.60655	0.69110	1.20105	1.2152	1.5907
56500	56500	300.070	-69.700	-54.500	1.60705	0.69060	1.18950	1.2024	1.5742
57000	57000	300.070	-69.700	-54.500	1.60760	0.69010	1.17805	1.1896	1.5577
57500	57500	300.070	-69.700	-54.500	1.60815	0.68960	1.16670	1.1768	1.5412
58000	58000	300.070	-69.700	-54.500	1.60875	0.68910	1.15545	1.1640	1.5247
58500	58500	300.070	-69.700	-54.500	1.60940	0.68860	1.14430	1.1512	1.5082
59000	59000	300.070	-69.700	-54.500	1.61010	0.68810	1.13325	1.1384	1.4917
59500	59500	300.070	-69.700	-54.500	1.61085	0.68760	1.12230	1.1256	1.4752
60000	60000	300.070	-69.700	-54.500	1.61165	0.68710	1.11145	1.1128	1.4587
60500	60500	300.070	-69.700	-54.500	1.61250	0.68660	1.10070	1.1000	1.4422
61000	61000	300.070	-69.700	-54.500	1.61340	0.68610	1.09005	1.0873	1.4257
61500	61500	300.070	-69.700	-54.500	1.61435	0.68560	1.07950	1.0746	1.4092
62000	62000	300.070	-69.700	-54.500	1.61535	0.68510	1.06905	1.0641	1.3927
62500	62500	300.070	-69.700	-54.500	1.61640	0.68460	1.05870	1.0538	1.3762
63000	63000	300.070	-69.700	-54.500	1.61750	0.68410	1.04845	1.0435	1.3597
63500	63500	300.070	-69.700	-54.500	1.61865	0.68360	1.03830	1.0334	1.3432
64000	64000	300.070	-69.700	-54.500	1.61985	0.68310	1.02825	1.0233	1.3267
64500	64500	300.070	-69.700	-54.500	1.62110	0.68260	1.01830	1.0134	1.3102
65000	65000	300.070	-69.700	-54.500	1.62240	0.68210	1.00845	1.0035	1.2937
65500	65500	300.070	-69.700	-54.500	1.62375	0.68160	0.99870	0.9938	1.2772
66000	66000	300.070	-69.700	-54.500	1.62515	0.68110	0.98905	0.9841	1.2607
66500	66500	300.070	-69.700	-54.500	1.62660	0.68060	0.97950	0.9746	1.2442
67000	67000	300.070	-69.700	-54.500	1.62810	0.68010	0.97005	0.9651	1.2277
67500	67500	300.070	-69.700	-54.500	1.62965	0.67960	0.96070	0.9558	1.2112
68000	68000	300.070	-69.700	-54.500	1.63125	0.67910	0.95145	0.9465	1.1947
68500	68500	300.070	-69.700	-54.500	1.63290	0.67860	0.94230	0.9374	1.1782
69000	69000	300.070	-69.700	-54.500	1.63460	0.67810	0.93325	0.9283	1.1617
69500	69500	300.070	-69.700	-54.500	1.63635	0.67760	0.92430	0.9194	1.1452
70000	70000	300.070	-69.700	-54.500	1.63815	0.67710	0.91545	0.9105	1.1287
70500	70500	300.070	-69.700	-54.500	1.64000	0.67660	0.90670	0.9018	1.1122
71000	71000	300.070	-69.700	-54.500	1.64190	0.67610	0.89805	0.8931	1.0957
71500	71500	300.070	-69.700	-54.500	1.64385	0.67560	0.88950	0.8846	1.0792
72000	72000	300.070	-69.700	-54.500	1.64585	0.67510	0.88105	0.8761	1.0627
72500	72500	300.070	-69.700	-54.500	1.64790	0.67460	0.87270	0.8678	1.0462
73000	73000	300.070	-69.700	-54.500	1.65000	0.67410	0.86445	0.8595	1.0297
73500	73500	300.070	-69.700	-54.500	1.65215	0.67360	0.85630	0.8514	1.0132
74000	74000	300.070	-69.700	-54.500	1.65435	0.67310	0.84825	0.8433	0.9967
74500	74500	300.070	-69.700	-54.500	1.65660	0.67260	0.84030	0.8354	0.9802
75000	75000	300.070	-69.700	-54.500	1.65890	0.67210	0.83245	0.8275	0.9637
75500	75500	300.070	-69.700	-54.500	1.66125	0.67160	0.82470	0.8198	0.9472
76000	76000	300.070	-69.700	-54.500	1.66365	0.67110	0.81705	0.8121	0.9307
76500	76500	300.070	-69.700	-54.500	1.66610	0.67060	0.80950	0.8046	0.9142
77000	77000	300.070	-69.700	-54.500	1.66860	0.67010	0.80205	0.7971	0.8977
77500	77500	300.070	-69.700	-54.500	1.67115	0.66960	0.79470	0.7898	0.8812
78000	78000	300.070	-69.700	-54.500	1.67375	0.66910	0.78745	0.7825	0.8647
78500	78500	300.070	-69.700	-54.500	1.67640	0.66860	0.78030	0.7754	0.8482
79000	79000	300.070	-69.700	-54.500	1.67910	0.66810	0.77325	0.7683	0.8317
79500	79500	300.070	-69.700	-54.500	1.68185	0.66760	0.76630	0.7614	0.8152
80000	80000	300.070	-69.700	-54.500	1.68465	0.66710	0.75945	0.7545	0.7987
80500	80500	300.070	-69.700	-54.500	1.68750	0.66660	0.75270	0.7478	0.7822
81000	81000	300.070	-69.700	-54.500	1.69040	0.66610	0.74605	0.7411	0.7657
81500	81500	300.070	-69.700	-54.500	1.69335	0.66560	0.73950	0.7346	0.7492
82000	82000	300.070	-69.700	-54.500	1.69635	0.66510	0.73305	0.7281	0.7327
82500	82500	300.070	-69.700	-54.500	1.69940	0.66460	0.72670	0.7218	0.7162
83000	83000	300.070	-69.700	-54.500	1.70250	0.66410	0.72045	0.7155	0.6997
83500	83500	300.070	-69.700	-54.500	1.70565	0.66360	0.71430	0.7094	0.6832
84000	84000	300.070	-69.700	-54.500	1.70885	0.66310	0.70825	0.7033	0.6667
84500	84500	300.070	-69.700	-54.500	1.71210	0.66260	0.70230	0.6974	0.6502
85000	85000	300.070	-69.700	-54.500	1.71540	0.66210	0.69645	0.6915	0.6337
85500	85500	300.070	-69.700	-54.500	1.71875	0.66160	0.69070	0.6858	0.6172
86000	86000	300.070	-69.700	-54.500	1.72215	0.66110	0.68505	0.6801	0.6007
86500	86500	300.070	-69.700	-54.500	1.72560	0.66060	0.67950	0.6746	0.5842
87000	87000	300.070	-69.700	-54.500	1.72910	0.66010	0.67405	0.6691	0.5677
87500	87500	300.070	-69.700	-54.500	1.73265	0.65960	0.66870	0.6638	0.5512
88000	88000	300.070	-69.700	-54.500	1.73625	0.65910	0.66345	0.6585	0.5347
88500	88500	300.070	-69.700	-54.500	1.73990	0.65860	0.65830	0.6534	0.5182
89000	89000	300.070	-69.700	-54.500	1.74360	0.65810	0.65325	0.6483	0.5017
89500	89500	300.070	-69.700	-54.500	1.74735	0.65760	0.64830	0.6434	0.4852
90000	90000	300.070	-69.700	-54.500	1.75115	0.65710	0.64345	0.6385	0.4687
90500	90500	300.070	-69.700	-54.500	1.75500	0.65660	0.63870	0.6338	0.4522
91000	91000	300.070	-69.700	-54.500	1.75890	0.65610	0.63405	0.6291	0.4357
91500	91500	300.070	-69.700	-54.500	1.76285	0.65560	0.62950	0.6246	0.4192
92000	92000	300.070	-69.700	-54.500	1.76685	0.65510	0.6250		

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	$\rho, \text{lb ft}^{-3}$	$\frac{\rho}{\rho_0}$
43000	43912	389.970	-49.700	-56.500	1.60000 * 2	0.61002 * 0	1.60017 * 1	1.6367 * 2	2.1002 * 1
43200	43111	389.970	-49.700	-56.500	1.61000	0.61000	1.59383	1.6211	2.1100
43400	43310	389.970	-49.700	-56.500	1.59957	0.61000	1.57805	1.6057	2.0990
43600	43509	389.970	-49.700	-56.500	1.58913	0.60952	1.56261	1.5896	2.0796
43800	43708	389.970	-49.700	-56.500	1.57869	0.60906	1.54739	1.5732	2.0592
44000	43907	389.970	-49.700	-56.500	1.56825	0.60860	1.53236	1.5567	2.0387
44200	44107	389.970	-49.700	-56.500	1.55781	0.60814	1.51753	1.5401	2.0182
44400	44306	389.970	-49.700	-56.500	1.54737	0.60768	1.50287	1.5234	2.0000
44600	44505	389.970	-49.700	-56.500	1.53693	0.60722	1.48839	1.5067	1.9805
44800	44704	389.970	-49.700	-56.500	1.52649	0.60676	1.47404	1.4900	1.9600
45000	44903	389.970	-49.700	-56.500	1.51605	0.60630	1.45982	1.4732	1.9395
45200	45102	389.970	-49.700	-56.500	1.50561	0.60584	1.44569	1.4564	1.9190
45400	45301	389.970	-49.700	-56.500	1.49517	0.60538	1.43169	1.4396	1.8985
45600	45500	389.970	-49.700	-56.500	1.48473	0.60492	1.41784	1.4228	1.8780
45800	45700	389.970	-49.700	-56.500	1.47429	0.60446	1.40411	1.4060	1.8575
46000	45900	389.970	-49.700	-56.500	1.46385	0.60400	1.39048	1.3892	1.8370
46200	46100	389.970	-49.700	-56.500	1.45341	0.60354	1.37694	1.3724	1.8165
46400	46300	389.970	-49.700	-56.500	1.44297	0.60308	1.36350	1.3556	1.7960
46600	46500	389.970	-49.700	-56.500	1.43253	0.60262	1.35015	1.3387	1.7755
46800	46700	389.970	-49.700	-56.500	1.42209	0.60216	1.33689	1.3218	1.7550
47000	46900	389.970	-49.700	-56.500	1.41165	0.60170	1.32372	1.3049	1.7345
47200	47100	389.970	-49.700	-56.500	1.40121	0.60124	1.31064	1.2880	1.7140
47400	47300	389.970	-49.700	-56.500	1.39077	0.60078	1.29773	1.2711	1.6935
47600	47500	389.970	-49.700	-56.500	1.38033	0.60032	1.28490	1.2546	1.6730
47800	47700	389.970	-49.700	-56.500	1.36989	0.60000	1.27224	1.2377	1.6525
48000	47900	389.970	-49.700	-56.500	1.35945	0.59954	1.25975	1.2168	1.6320
48200	48100	389.970	-49.700	-56.500	1.34901	0.59908	1.24743	1.1959	1.6115
48400	48300	389.970	-49.700	-56.500	1.33857	0.59862	1.23527	1.1750	1.5910
48600	48500	389.970	-49.700	-56.500	1.32813	0.59816	1.22327	1.1541	1.5705
48800	48700	389.970	-49.700	-56.500	1.31769	0.59770	1.21142	1.1332	1.5500
49000	48900	389.970	-49.700	-56.500	1.30725	0.59724	1.20000	1.1123	1.5295
49200	49100	389.970	-49.700	-56.500	1.29681	0.59678	1.18871	1.0914	1.5090
49400	49300	389.970	-49.700	-56.500	1.28637	0.59632	1.17755	1.0705	1.4885
49600	49500	389.970	-49.700	-56.500	1.27593	0.59586	1.16650	1.0496	1.4680
49800	49700	389.970	-49.700	-56.500	1.26549	0.59540	1.15556	1.0287	1.4475
50000	49900	389.970	-49.700	-56.500	1.25505	0.59494	1.14471	1.0078	1.4270
50200	50100	389.970	-49.700	-56.500	1.24461	0.59448	1.13396	0.9869	1.4065
50400	50300	389.970	-49.700	-56.500	1.23417	0.59402	1.12330	0.9660	1.3860
50600	50500	389.970	-49.700	-56.500	1.22373	0.59356	1.11274	0.9451	1.3655
50800	50700	389.970	-49.700	-56.500	1.21329	0.59310	1.10228	0.9242	1.3450
51000	50900	389.970	-49.700	-56.500	1.20285	0.59264	1.09192	0.9033	1.3245
51200	51100	389.970	-49.700	-56.500	1.19241	0.59218	1.08166	0.8824	1.3040
51400	51300	389.970	-49.700	-56.500	1.18197	0.59172	1.07150	0.8615	1.2835
51600	51500	389.970	-49.700	-56.500	1.17153	0.59126	1.06144	0.8406	1.2630
51800	51700	389.970	-49.700	-56.500	1.16109	0.59080	1.05148	0.8197	1.2425
52000	51900	389.970	-49.700	-56.500	1.15065	0.59034	1.04162	0.7988	1.2220
52200	52100	389.970	-49.700	-56.500	1.14021	0.58988	1.03186	0.7779	1.2015
52400	52300	389.970	-49.700	-56.500	1.12977	0.58942	1.02220	0.7570	1.1810
52600	52500	389.970	-49.700	-56.500	1.11933	0.58896	1.01264	0.7361	1.1605
52800	52700	389.970	-49.700	-56.500	1.10889	0.58850	1.00318	0.7152	1.1400
53000	52900	389.970	-49.700	-56.500	1.09845	0.58804	0.99382	0.6943	1.1195
53200	53100	389.970	-49.700	-56.500	1.08801	0.58758	0.98446	0.6734	1.0990
53400	53300	389.970	-49.700	-56.500	1.07757	0.58712	0.97520	0.6525	1.0785
53600	53500	389.970	-49.700	-56.500	1.06713	0.58666	0.96594	0.6316	1.0580
53800	53700	389.970	-49.700	-56.500	1.05669	0.58620	0.95678	0.6107	1.0375
54000	53900	389.970	-49.700	-56.500	1.04625	0.58574	0.94762	0.5898	1.0170
54200	54100	389.970	-49.700	-56.500	1.03581	0.58528	0.93846	0.5689	0.9965
54400	54300	389.970	-49.700	-56.500	1.02537	0.58482	0.92930	0.5480	0.9760
54600	54500	389.970	-49.700	-56.500	1.01493	0.58436	0.92014	0.5271	0.9555
54800	54700	389.970	-49.700	-56.500	1.00449	0.58390	0.91108	0.5062	0.9350
55000	54900	389.970	-49.700	-56.500	0.99405	0.58344	0.90202	0.4853	0.9145
55200	55100	389.970	-49.700	-56.500	0.98361	0.58298	0.89296	0.4644	0.8940
55400	55300	389.970	-49.700	-56.500	0.97317	0.58252	0.88390	0.4435	0.8735
55600	55500	389.970	-49.700	-56.500	0.96273	0.58206	0.87484	0.4226	0.8530
55800	55700	389.970	-49.700	-56.500	0.95229	0.58160	0.86578	0.4017	0.8325
56000	55900	389.970	-49.700	-56.500	0.94185	0.58114	0.85672	0.3808	0.8120
56200	56100	389.970	-49.700	-56.500	0.93141	0.58068	0.84766	0.3599	0.7915
56400	56300	389.970	-49.700	-56.500	0.92097	0.58022	0.83860	0.3390	0.7710
56600	56500	389.970	-49.700	-56.500	0.91053	0.57976	0.82954	0.3181	0.7505
56800	56700	389.970	-49.700	-56.500	0.90009	0.57930	0.82048	0.2972	0.7300
57000	56900	389.970	-49.700	-56.500	0.88965	0.57884	0.81142	0.2763	0.7095
57200	57100	389.970	-49.700	-56.500	0.87921	0.57838	0.80236	0.2554	0.6890
57400	57300	389.970	-49.700	-56.500	0.86877	0.57792	0.79330	0.2345	0.6685
57600	57500	389.970	-49.700	-56.500	0.85833	0.57746	0.78424	0.2136	0.6480
57800	57700	389.970	-49.700	-56.500	0.84789	0.57700	0.77518	0.1927	0.6275
58000	57900	389.970	-49.700	-56.500	0.83745	0.57654	0.76612	0.1718	0.6070
58200	58100	389.970	-49.700	-56.500	0.82701	0.57608	0.75706	0.1509	0.5865
58400	58300	389.970	-49.700	-56.500	0.81657	0.57562	0.74800	0.1300	0.5660
58600	58500	389.970	-49.700	-56.500	0.80613	0.57516	0.73894	0.1091	0.5455
58800	58700	389.970	-49.700	-56.500	0.79569	0.57470	0.72988	0.0882	0.5250
59000	58900	389.970	-49.700	-56.500	0.78525	0.57424	0.72082	0.0673	0.5045
59200	59100	389.970	-49.700	-56.500	0.77481	0.57378	0.71176	0.0464	0.4840
59400	59300	389.970	-49.700	-56.500	0.76437	0.57332	0.70270	0.0255	0.4635
59600	59500	389.970	-49.700	-56.500	0.75393	0.57286	0.69364	0.0046	0.4430
59800	59700	389.970	-49.700	-56.500	0.74349	0.57240	0.68458		
60000	59900	389.970	-49.700	-56.500	0.73305	0.57194	0.67552		

TABLE 1E - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
50000	50167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.8778
51200	51367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.7827
52400	52567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.6876
53600	53767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.5925
54800	54967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.4974
56000	56167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.4023
57200	57367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.3072
58400	58567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.2121
59600	59767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.1170
60800	60967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	9.0219
62000	62167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.9268
63200	63367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.8317
64400	64567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.7366
65600	65767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.6415
66800	66967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.5464
68000	68167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.4513
69200	69367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.3562
70400	70567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.2611
71600	71767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.1660
72800	72967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	8.0709
74000	74167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.9758
75200	75367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.8807
76400	76567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.7856
77600	77767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.6905
78800	78967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.5954
80000	80167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.5003
81200	81367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.4052
82400	82567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.3101
83600	83767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.2150
84800	84967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.1199
86000	86167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	7.0248
87200	87367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.9297
88400	88567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.8346
89600	89767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.7395
90800	90967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.6444
92000	92167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.5493
93200	93367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.4542
94400	94567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.3591
95600	95767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.2640
96800	96967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.1689
98000	98167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	6.0738
99200	99367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.9787
100400	100567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.8836
101600	101767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.7885
102800	102967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.6934
104000	104167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.5983
105200	105367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.5032
106400	106567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.4081
107600	107767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.3130
108800	108967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.2179
110000	110167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.1228
111200	111367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	5.0277
112400	112567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.9326
113600	113767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.8375
114800	114967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.7424
116000	116167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.6473
117200	117367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.5522
118400	118567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.4571
119600	119767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.3620
120800	120967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.2669
122000	122167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.1718
123200	123367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	4.0767
124400	124567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.9816
125600	125767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.8865
126800	126967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.7914
128000	128167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.6963
129200	129367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.6012
130400	130567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.5061
131600	131767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.4110
132800	132967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.3159
134000	134167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.2208
135200	135367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.1257
136400	136567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	3.0306
137600	137767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.9355
138800	138967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.8404
140000	140167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.7453
141200	141367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.6502
142400	142567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.5551
143600	143767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.4600
144800	144967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.3649
146000	146167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.2698
147200	147367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.1747
148400	148567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	2.0796
149600	149767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.9845
150800	150967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.8894
152000	152167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.7943
153200	153367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.6992
154400	154567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.6041
155600	155767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.5090
156800	156967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.4139
158000	158167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.3188
159200	159367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.2237
160400	160567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.1286
161600	161767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	1.0335
162800	162967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.9384
164000	164167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.8433
165200	165367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.7482
166400	166567	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.6531
167600	167767	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.5580
168800	168967	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.4629
170000	170167	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	0.3678
171200	171367	509.970	-69.700	-56.500	7.52675	2.22205	7.52675	7.5535	

TABLE IX - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °F	T, °F	T, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
50000	50034	509.970	-69.700	-50.500	7.50117	2.23000	7.40100	1.4162	0.9260
51200	51032	509.970	-69.700	-50.500	7.51302	2.21059	7.41877	1.5410	0.8610
52400	52231	509.970	-69.700	-50.500	7.52487	2.19119	7.43654	1.6760	0.7960
53600	53029	509.970	-69.700	-50.500	7.53672	2.17178	7.45431	1.8110	0.7310
54800	53827	509.970	-69.700	-50.500	7.54857	2.15237	7.47208	1.9460	0.6660
56000	54625	509.970	-69.700	-50.500	7.56042	2.13296	7.48985	2.0810	0.6010
57200	55423	509.970	-69.700	-50.500	7.57227	2.11355	7.50762	2.2160	0.5360
58400	56221	509.970	-69.700	-50.500	7.58412	2.09414	7.52539	2.3510	0.4710
59600	57019	509.970	-69.700	-50.500	7.59597	2.07473	7.54316	2.4860	0.4060
60800	57817	509.970	-69.700	-50.500	7.60782	2.05532	7.56093	2.6210	0.3410
62000	58615	509.970	-69.700	-50.500	7.61967	2.03591	7.57870	2.7560	0.2760
63200	59413	509.970	-69.700	-50.500	7.63152	2.01650	7.59647	2.8910	0.2110
64400	60211	509.970	-69.700	-50.500	7.64337	1.99709	7.61424	3.0260	0.1460
65600	61009	509.970	-69.700	-50.500	7.65522	1.97768	7.63201	3.1610	0.0810
66800	61807	509.970	-69.700	-50.500	7.66707	1.95827	7.64978	3.2960	0.0160
68000	62605	509.970	-69.700	-50.500	7.67892	1.93886	7.66755	3.4310	0.0010
69200	63403	509.970	-69.700	-50.500	7.69077	1.91945	7.68532	3.5660	0.0000
70400	64201	509.970	-69.700	-50.500	7.70262	1.89904	7.70309	3.7010	0.0000
71600	65000	509.970	-69.700	-50.500	7.71447	1.87963	7.72086	3.8360	0.0000
72800	65798	509.970	-69.700	-50.500	7.72632	1.86022	7.73863	3.9710	0.0000
74000	66596	509.970	-69.700	-50.500	7.73817	1.84081	7.75640	4.1060	0.0000
75200	67394	509.970	-69.700	-50.500	7.75002	1.82140	7.77417	4.2410	0.0000
76400	68192	509.970	-69.700	-50.500	7.76187	1.80199	7.79194	4.3760	0.0000
77600	68990	509.970	-69.700	-50.500	7.77372	1.78258	7.80971	4.5110	0.0000
78800	69788	509.970	-69.700	-50.500	7.78557	1.76317	7.82748	4.6460	0.0000
80000	70586	509.970	-69.700	-50.500	7.79742	1.74376	7.84525	4.7810	0.0000
81200	71384	509.970	-69.700	-50.500	7.80927	1.72435	7.86302	4.9160	0.0000
82400	72182	509.970	-69.700	-50.500	7.82112	1.70494	7.88079	5.0510	0.0000
83600	72980	509.970	-69.700	-50.500	7.83297	1.68553	7.89856	5.1860	0.0000
84800	73778	509.970	-69.700	-50.500	7.84482	1.66612	7.91633	5.3210	0.0000
86000	74576	509.970	-69.700	-50.500	7.85667	1.64671	7.93410	5.4560	0.0000
87200	75374	509.970	-69.700	-50.500	7.86852	1.62730	7.95187	5.5910	0.0000
88400	76172	509.970	-69.700	-50.500	7.88037	1.60789	7.96964	5.7260	0.0000
89600	76970	509.970	-69.700	-50.500	7.89222	1.58848	7.98741	5.8610	0.0000
90800	77768	509.970	-69.700	-50.500	7.90407	1.56907	8.00518	5.9960	0.0000
92000	78566	509.970	-69.700	-50.500	7.91592	1.54966	8.02295	6.1310	0.0000
93200	79364	509.970	-69.700	-50.500	7.92777	1.53025	8.04072	6.2660	0.0000
94400	80162	509.970	-69.700	-50.500	7.93962	1.51084	8.05849	6.4010	0.0000
95600	80960	509.970	-69.700	-50.500	7.95147	1.49143	8.07626	6.5360	0.0000
96800	81758	509.970	-69.700	-50.500	7.96332	1.47202	8.09403	6.6710	0.0000
98000	82556	509.970	-69.700	-50.500	7.97517	1.45261	8.11180	6.8060	0.0000
99200	83354	509.970	-69.700	-50.500	7.98702	1.43320	8.12957	6.9410	0.0000
100400	84152	509.970	-69.700	-50.500	7.99887	1.41379	8.14734	7.0760	0.0000
101600	84950	509.970	-69.700	-50.500	8.01072	1.39438	8.16511	7.2110	0.0000
102800	85748	509.970	-69.700	-50.500	8.02257	1.37497	8.18288	7.3460	0.0000
104000	86546	509.970	-69.700	-50.500	8.03442	1.35556	8.20065	7.4810	0.0000
105200	87344	509.970	-69.700	-50.500	8.04627	1.33615	8.21842	7.6160	0.0000
106400	88142	509.970	-69.700	-50.500	8.05812	1.31674	8.23619	7.7510	0.0000
107600	88940	509.970	-69.700	-50.500	8.06997	1.29733	8.25396	7.8860	0.0000
108800	89738	509.970	-69.700	-50.500	8.08182	1.27792	8.27173	8.0210	0.0000
110000	90536	509.970	-69.700	-50.500	8.09367	1.25851	8.28950	8.1560	0.0000
111200	91334	509.970	-69.700	-50.500	8.10552	1.23910	8.30727	8.2910	0.0000
112400	92132	509.970	-69.700	-50.500	8.11737	1.21969	8.32504	8.4260	0.0000
113600	92930	509.970	-69.700	-50.500	8.12922	1.19928	8.34281	8.5610	0.0000
114800	93728	509.970	-69.700	-50.500	8.14107	1.17987	8.36058	8.6960	0.0000
116000	94526	509.970	-69.700	-50.500	8.15292	1.16046	8.37835	8.8310	0.0000
117200	95324	509.970	-69.700	-50.500	8.16477	1.14105	8.39612	8.9660	0.0000
118400	96122	509.970	-69.700	-50.500	8.17662	1.12164	8.41389	9.1010	0.0000
119600	96920	509.970	-69.700	-50.500	8.18847	1.10223	8.43166	9.2360	0.0000
120800	97718	509.970	-69.700	-50.500	8.19932	1.08282	8.44943	9.3710	0.0000
122000	98516	509.970	-69.700	-50.500	8.21117	1.06341	8.46720	9.5060	0.0000
123200	99314	509.970	-69.700	-50.500	8.22302	1.04400	8.48497	9.6410	0.0000
124400	100112	509.970	-69.700	-50.500	8.23487	1.02459	8.50274	9.7760	0.0000
125600	100910	509.970	-69.700	-50.500	8.24672	1.00518	8.52051	9.9110	0.0000
126800	101708	509.970	-69.700	-50.500	8.25857	0.98577	8.53828	10.0460	0.0000
128000	102506	509.970	-69.700	-50.500	8.27042	0.96636	8.55605	10.1810	0.0000
129200	103304	509.970	-69.700	-50.500	8.28227	0.94695	8.57382	10.3160	0.0000
130400	104102	509.970	-69.700	-50.500	8.29412	0.92754	8.59159	10.4510	0.0000
131600	104900	509.970	-69.700	-50.500	8.30597	0.90813	8.60936	10.5860	0.0000
132800	105698	509.970	-69.700	-50.500	8.31782	0.88872	8.62713	10.7210	0.0000
134000	106496	509.970	-69.700	-50.500	8.32967	0.86931	8.64490	10.8560	0.0000
135200	107294	509.970	-69.700	-50.500	8.34152	0.84990	8.66267	10.9910	0.0000
136400	108092	509.970	-69.700	-50.500	8.35337	0.83049	8.68044	11.1260	0.0000
137600	108890	509.970	-69.700	-50.500	8.36522	0.81108	8.69821	11.2610	0.0000
138800	109688	509.970	-69.700	-50.500	8.37707	0.79167	8.71598	11.3960	0.0000
140000	110486	509.970	-69.700	-50.500	8.38892	0.77226	8.73375	11.5310	0.0000
141200	111284	509.970	-69.700	-50.500	8.40077	0.75285	8.75152	11.6660	0.0000
142400	112082	509.970	-69.700	-50.500	8.41262	0.73344	8.76929	11.8010	0.0000
143600	112880	509.970	-69.700	-50.500	8.42447	0.71403	8.78706	11.9360	0.0000
144800	113678	509.970	-69.700	-50.500	8.43632	0.69462	8.80483	12.0710	0.0000
146000	114476	509.970	-69.700	-50.500	8.44817	0.67521	8.82260	12.2060	0.0000
147200	115274	509.970	-69.700	-50.500	8.46002	0.65580	8.84037	12.3410	0.0000
148400	116072	509.970	-69.700	-50.500	8.47187	0.63639	8.85814	12.4760	0.0000
149600	116870	509.970	-69.700	-50.500	8.48372	0.61698	8.87591	12.6110	0.0000
150800	117668	509.970	-69.700	-50.500	8.49557	0.59757	8.89368	12.7460	0.0000
152000	118466	509.970	-69.700	-50.500	8.50742	0.57816	8.91145	12.8810	0.0000
153200	119264	509.970	-69.700	-50.500	8.51927	0.55875	8.92922	13.0160	0.0000
154400	120062	509.970	-69.700	-50.500	8.53112	0.53934	8.94699	13.1510	0.0000
155600	120860	509.970	-69.700	-50.500	8.54297	0.51993	8.96476	13.2860	0.0000
156800	121658	509.970	-69.700	-50.500	8.55482	0.50052	8.98253	13.4210	0.0000
158000	122456	509.970	-69.700	-50.500	8.56667	0.48111	8.99930	13.5560	0.0000
159200	123254	509.970	-69.700	-50.500	8.57852	0.46170	9.01707	13.6910	0.0000
160400	124052	509.970	-69.700	-50.500	8.59037	0.44229	9.03484	13.8260	0.0000
161600	124850	509.970	-69.700	-50.500	8.60222	0.42288	9.05261	13.9610	0.0000
162800	125648	509.970	-69.700	-50.500	8.61407	0.40347	9.07038	14.0960	0.0000
164000	126446	509.970	-69.700	-50.500	8.62592	0.38406	9.08815	14.2310	0.0000
165200	127244	509.970	-69.700	-50.500	8.63777	0.36465	9.10592	14.3660	0.0000
166400	128042	509.970	-69.700	-50.500	8.64962	0.34524	9.12369	14.5010	0.0000
167600	128840	509.970	-69.700	-50.500	8.66147	0.32583	9.14146	14.6360	0.0000
168800	129638	509.970	-69.700	-50.500	8.67332	0.30642	9.15923	14.7710	0.0000
170000	130436	509.970	-69.700	-50.500	8.68517	0.28701	9.17700	14.9060	0.0000
171200	131234	509.970	-69.700	-50.500	8.69702	0.26760			

TABLE IX - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
M, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
75000	75271	395.118	-64.332	-53.660	3.49770 + 1	1.03290 + 0	3.45205 - 2	3.4656 - 3	4.5315 - 2
75200	75472	395.228	-64.602	-53.579	3.48876	1.02316	3.41945	3.4318	4.4875
75400	75676	395.337	-64.333	-53.518	3.48206	1.01349	3.38718	3.3984	4.4439
75600	75875	395.447	-64.283	-53.457	3.47467	1.00392	3.35522	3.3654	4.4007
75800	76077	395.557	-64.113	-53.396	3.46760	9.99455 - 1	3.32357	3.3327	4.3580
76000	76278	395.667	-64.003	-53.335	3.45987	9.98578	3.29229	3.3004	4.3157
76200	76479	395.774	-63.894	-53.274	3.45253	9.97567	3.26118	3.2684	4.2736
76400	76681	395.884	-63.784	-53.213	3.44525	9.96509	3.23046	3.2367	4.2324
76600	76882	395.994	-63.674	-53.152	3.43826	9.95481	3.20000	3.2053	4.1913
76800	77084	396.104	-63.564	-53.091	3.43106	9.94461	3.16986	3.1762	4.1507
77000	77285	396.215	-63.455	-53.030	3.42461 + 1	9.93469 - 1	3.14001 - 2	3.1434 - 3	4.1105 - 2
77200	77487	396.325	-63.345	-52.969	3.41805	9.92462	3.11044	3.1150	4.0706
77400	77689	396.435	-63.235	-52.908	3.41199	9.91422	3.08116	3.0820	4.0312
77600	77890	396.544	-63.126	-52.848	3.40626	9.90340	3.05217	3.0530	3.9922
77800	78091	396.654	-63.016	-52.787	3.40035	9.89245	3.02345	3.0234	3.9535
78000	78293	396.764	-62.906	-52.726	3.39477	9.88148	2.99502	2.9942	3.9152
78200	78494	396.874	-62.796	-52.665	3.38861	9.87042	2.96686	2.9652	3.8774
78400	78696	396.983	-62.687	-52.604	3.38279	9.85937	2.93897	2.9365	3.8399
78600	78897	397.093	-62.577	-52.543	3.37695	9.84816	2.91136	2.9081	3.8027
78800	79099	397.203	-62.467	-52.482	3.37122	9.83693	2.88400	2.8800	3.7660
79000	79300	397.313	-62.357	-52.421	3.36567 + 1	9.82568 - 1	2.85692 - 2	2.8521 - 3	3.7294 - 2
79200	79502	397.422	-62.248	-52.360	3.36039	9.81447	2.83009	2.8246	3.6935
79400	79703	397.532	-62.138	-52.299	3.35506	9.80321	2.80353	2.7973	3.6578
79600	79905	397.642	-62.028	-52.238	3.34979	9.79192	2.77722	2.7703	3.6225
79800	80107	397.751	-61.919	-52.177	3.34447	9.78062	2.75116	2.7435	3.5875
80000	80308	397.861	-61.809	-52.116	3.33917	9.76932	2.72536	2.7171	3.5529
80200	80510	397.971	-61.699	-52.055	3.33387	9.75802	2.69966	2.6908	3.5186
80400	80711	398.081	-61.589	-51.994	3.32857	9.74672	2.67415	2.6649	3.4847
80600	80913	398.190	-61.480	-51.933	3.32326	9.73542	2.64885	2.6392	3.4511
80800	81114	398.300	-61.370	-51.872	3.31796	9.72412	2.62361	2.6137	3.4178
81000	81316	398.410	-61.260	-51.811	3.31266 + 1	9.71282 - 1	2.60003 - 2	2.5885 - 3	3.3849 - 2
81200	81517	398.520	-61.150	-51.750	3.30736	9.70152	2.57568	2.5644	3.3522
81400	81719	398.629	-61.041	-51.689	3.30206	9.69022	2.55157	2.5386	3.3199
81600	81921	398.739	-60.931	-51.628	3.29676	9.67892	2.52769	2.5144	3.2880
81800	82122	398.849	-60.821	-51.567	3.29146	9.66762	2.50404	2.4902	3.2563
82000	82324	398.958	-60.712	-51.506	3.28616	9.65632	2.48062	2.4663	3.2250
82200	82525	399.068	-60.602	-51.445	3.28086	9.64502	2.45743	2.4425	3.1939
82400	82727	399.178	-60.492	-51.384	3.27556	9.63372	2.43465	2.4190	3.1632
82600	82928	399.288	-60.382	-51.324	3.27026	9.62242	2.41170	2.3958	3.1328
82800	83130	399.397	-60.273	-51.263	3.26496	9.61112	2.38917	2.3727	3.1027
83000	83332	399.507	-60.163	-51.202	3.25966 + 1	9.60002 - 1	2.36685 - 2	2.3499 - 3	3.0728 - 2
83200	83533	399.617	-60.053	-51.141	3.25436	9.58892	2.34475	2.3273	3.0433
83400	83735	399.727	-59.943	-51.080	3.24906	9.57782	2.32284	2.3050	3.0141
83600	83937	399.836	-59.833	-51.019	3.24376	9.56672	2.30118	2.2828	2.9851
83800	84138	399.946	-59.723	-50.958	3.23846	9.55562	2.27971	2.2604	2.9564
84000	84340	400.056	-59.613	-50.897	3.23316	9.54452	2.25845	2.2377	2.9281
84200	84541	400.166	-59.503	-50.836	3.22786	9.53342	2.23739	2.2157	2.9000
84400	84743	400.275	-59.393	-50.775	3.22256	9.52232	2.21653	2.1944	2.8721
84600	84945	400.385	-59.283	-50.714	3.21726	9.51122	2.19587	2.1734	2.8446
84800	85146	400.495	-59.173	-50.653	3.21196	9.50012	2.17541	2.1545	2.8173
85000	85348	400.604	-59.064	-50.592	3.20666 + 1	9.48902 - 1	2.15514 - 2	2.1339 - 3	2.7903 - 2
85200	85550	400.714	-58.954	-50.531	3.20136	9.47792	2.13507	2.1134	2.7634
85400	85751	400.824	-58.844	-50.470	3.19606	9.46682	2.11520	2.0932	2.7371
85600	85953	400.934	-58.734	-50.409	3.19076	9.45572	2.09551	2.0731	2.7109
85800	86154	401.043	-58.624	-50.348	3.18546	9.44462	2.07601	2.0533	2.6849
86000	86356	401.153	-58.517	-50.287	3.18016	9.43352	2.05670	2.0336	2.6592
86200	86558	401.263	-58.407	-50.226	3.17486	9.42242	2.03757	2.0141	2.6338
86400	86759	401.373	-58.298	-50.165	3.16956	9.41132	2.01863	1.9949	2.6084
86600	86961	401.482	-58.188	-50.104	3.16426	9.40022	1.99987	1.9758	2.5834
86800	87163	401.592	-58.078	-50.043	3.15896	9.38912	1.98128	1.9569	2.5589
87000	87364	401.702	-57.968	-49.982	3.15366 + 1	9.37802 - 1	1.96288 - 2	1.9382 - 3	2.5344 - 2
87200	87566	401.811	-57.859	-49.921	3.14836	9.36692	1.94465	1.9197	2.5102
87400	87768	401.921	-57.749	-49.860	3.14306	9.35582	1.92659	1.9013	2.4862
87600	87970	402.031	-57.639	-49.799	3.13776	9.34472	1.90871	1.8832	2.4625
87800	88171	402.141	-57.529	-49.739	3.13246	9.33362	1.89099	1.8652	2.4390
88000	88373	402.250	-57.420	-49.678	3.12716	9.32252	1.87345	1.8474	2.4157
88200	88575	402.360	-57.310	-49.617	3.12186	9.31142	1.85608	1.8297	2.3926
88400	88776	402.470	-57.200	-49.556	3.11656	9.30032	1.83887	1.8123	2.3696
88600	88978	402.579	-57.090	-49.495	3.11126	9.28922	1.82182	1.7950	2.3472
88800	89180	402.689	-56.981	-49.434	3.10596	9.27812	1.80494	1.7779	2.3248
89000	89381	402.799	-56.871	-49.373	3.10066 + 1	9.26702 - 1	1.78822 - 2	1.7609 - 3	2.3026 - 2
89200	89583	402.909	-56.761	-49.312	3.09536	9.25592	1.77165	1.7441	2.2807
89400	89785	403.018	-56.652	-49.251	3.09006	9.24482	1.75525	1.7275	2.2589
89600	89987	403.128	-56.542	-49.190	3.08476	9.23372	1.73900	1.7110	2.2374
89800	90188	403.238	-56.432	-49.129	3.07946	9.22262	1.72291	1.6948	2.2161
90000	90390	403.348	-56.322	-49.068	3.07416	9.21152	1.70694	1.6784	2.1950
90200	90592	403.457	-56.213	-49.007	3.06886	9.20042	1.69119	1.6626	2.1741
90400	90794	403.567	-56.103	-48.946	3.06356	9.18932	1.67554	1.6468	2.1534
90600	90995	403.677	-55.993	-48.885	3.05826	9.17822	1.66005	1.6311	2.1329
90800	91197	403.787	-55.883	-48.824	3.05296	9.16712	1.64471	1.6156	2.1127

TABLE IV - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
75000	74731	394.971	-64.699	-53.722	3.34268 + 1	1.04615 + 0	3.49635 - 2	5.5112 - 3	4.5916 - 2
75200	74930	395.079	-64.591	-53.661	3.50965	1.03634	3.46256	5.4773	4.5471
75400	75128	395.188	-64.482	-53.601	3.67656	1.02643	3.43109	5.4456	4.5032
75600	75327	395.297	-64.373	-53.540	3.84397	1.01701	3.39894	5.4106	4.4590
75800	75525	395.406	-64.264	-53.480	4.01171	1.00760	3.36709	5.3777	4.4157
76000	75724	395.515	-64.155	-53.419	4.17975	0.99860 - 1	3.33555	5.3451	4.3722
76200	75923	395.624	-64.046	-53.359	4.34810	0.98995	3.30432	5.3129	4.3289
76400	76121	395.733	-63.937	-53.299	4.51676	0.98140	3.27339	5.2810	4.2863
76600	76320	395.842	-63.828	-53.238	4.68572	0.97276	3.24276	5.2494	4.2440
76800	76518	395.951	-63.719	-53.177	4.85498	0.96416	3.21247	5.2181	4.2021
77000	76717	396.060	-63.610	-53.117	5.02454 + 1	0.95567 - 1	3.18250 - 2	5.1871 - 3	4.1574 - 2
77200	76915	396.169	-63.501	-53.056	5.19439	0.94705	3.15282	5.1564	4.1275
77400	77114	396.278	-63.392	-52.996	5.36453	0.93864	3.12315	5.1261	4.0970
77600	77312	396.387	-63.283	-52.935	5.53494	0.93025	3.09397	5.0960	4.0664
77800	77511	396.496	-63.174	-52.875	5.70567	0.92198	3.06506	5.0672	4.0359
78000	77709	396.604	-63.066	-52.814	5.87667	0.91360	3.03644	5.0382	4.0051
78200	77908	396.713	-62.957	-52.754	6.04793	0.90530	3.00809	5.0096	3.9748
78400	78106	396.822	-62.848	-52.693	6.21950	0.91657	2.98001	4.9817	3.9451
78600	78305	396.931	-62.739	-52.633	6.39132	0.90837	2.95221	4.9541	3.9156
78800	78503	397.040	-62.630	-52.572	6.56342	0.90000	2.92467	4.9268	3.8860
79000	78702	397.149	-62.521	-52.512	6.73578 + 1	0.89134 - 1	2.89739 - 2	4.8997 - 3	3.8570 - 2
79200	78900	397.258	-62.412	-52.451	6.90841	0.88285	2.87038	4.8726	3.8274
79400	79099	397.367	-62.303	-52.391	7.08131	0.87450	2.84363	4.8458	3.7977
79600	79297	397.476	-62.194	-52.330	7.25446	0.86623	2.81714	4.8193	3.7681
79800	79496	397.585	-62.085	-52.270	7.42787	0.85801	2.79089	4.7933	3.7386
80000	79694	397.693	-61.977	-52.209	7.60154	0.84989	2.76491	4.7676	3.7091
80200	79893	397.802	-61.868	-52.149	7.77546	0.84185	2.73917	4.7421	3.6797
80400	80091	397.911	-61.759	-52.088	7.94963	0.83386	2.71368	4.7168	3.6503
80600	80290	398.020	-61.650	-52.028	8.12405	0.82592	2.68843	4.6917	3.6210
80800	80488	398.129	-61.541	-51.967	8.29872	0.81800	2.66322	4.6668	3.5918
81000	80687	398.238	-61.432	-51.907	8.47364 + 1	0.80992 - 1	2.63820 - 2	4.6421 - 3	3.5626 - 2
81200	80885	398.347	-61.323	-51.846	8.64881	0.80194	2.61341	4.6176	3.5337
81400	81083	398.456	-61.214	-51.786	8.82421	0.79401	2.58884	4.5933	3.5048
81600	81282	398.565	-61.105	-51.725	9.00000	0.78613	2.56449	4.5691	3.4760
81800	81480	398.673	-60.997	-51.665	9.17607	0.77829	2.54035	4.5450	3.4473
82000	81679	398.782	-60.888	-51.604	9.35241	0.77050	2.51641	4.5211	3.4187
82200	81877	398.891	-60.779	-51.544	9.52901	0.76275	2.49267	4.4974	3.3902
82400	82076	399.000	-60.670	-51.483	9.70587	0.75504	2.46912	4.4739	3.3618
82600	82274	399.109	-60.561	-51.423	9.88300	0.74737	2.44577	4.4505	3.3335
82800	82473	399.218	-60.452	-51.362	10.06039	0.73974	2.42261	4.4273	3.3052
83000	82671	399.327	-60.343	-51.302	10.23803 + 1	0.73215 - 1	2.40000 - 2	4.4043 - 3	3.2770 - 2
83200	82869	399.435	-60.235	-51.241	10.41592	0.72460	2.37761	4.3815	3.2493
83400	83068	399.544	-60.126	-51.181	10.59406	0.71709	2.35543	4.3589	3.2217
83600	83266	399.653	-60.017	-51.120	10.77244	0.70962	2.33346	4.3365	3.1942
83800	83465	399.762	-59.908	-51.060	10.95106	0.70219	2.31169	4.3142	3.1668
84000	83663	399.871	-59.799	-51.000	11.13000	0.69480	2.29012	4.2921	3.1395
84200	83861	399.980	-59.690	-50.939	11.30925	0.68744	2.26875	4.2701	3.1123
84400	84060	400.089	-59.581	-50.879	11.48881	0.68011	2.24757	4.2483	3.0852
84600	84258	400.197	-59.473	-50.818	11.66867	0.67281	2.22658	4.2267	3.0582
84800	84456	400.306	-59.364	-50.758	11.84884	0.66554	2.20577	4.2053	3.0313
85000	84655	400.415	-59.255	-50.697	12.02931 + 1	0.65830 - 1	2.18510 - 2	4.1841 - 3	2.9999 - 2
85200	84853	400.524	-59.146	-50.637	12.21007	0.65109	2.16461	4.1631	2.9736
85400	85052	400.633	-59.037	-50.576	12.39113	0.64391	2.14429	4.1423	2.9474
85600	85250	400.742	-58.928	-50.516	12.57248	0.63675	2.12404	4.1217	2.9213
85800	85448	400.850	-58.820	-50.455	12.75403	0.62962	2.10395	4.1013	2.8953
86000	85647	400.959	-58.711	-50.395	12.93578	0.62252	2.08392	4.0810	2.8694
86200	85845	401.068	-58.602	-50.334	13.11773	0.61544	2.06395	4.0608	2.8436
86400	86043	401.177	-58.493	-50.274	13.29987	0.60839	2.04404	4.0407	2.8179
86600	86242	401.286	-58.384	-50.213	13.48220	0.60136	2.02419	4.0208	2.7923
86800	86440	401.395	-58.275	-50.153	13.66473	0.59436	2.00440	4.0010	2.7668
87000	86639	401.503	-58.167	-50.093	13.84745 + 1	0.58738 - 1	1.98467 - 2	3.9813 - 3	2.7414 - 2
87200	86837	401.612	-58.058	-50.032	14.03036	0.58042	1.96500	3.9617	2.7161
87400	87035	401.721	-57.949	-49.972	14.21346	0.57348	1.94539	3.9425	2.6909
87600	87234	401.830	-57.840	-49.911	14.39675	0.56656	1.92584	3.9234	2.6658
87800	87432	401.939	-57.731	-49.851	14.58023	0.55966	1.90634	3.9044	2.6408
88000	87630	402.047	-57.623	-49.790	14.76390	0.55278	1.88689	3.8855	2.6159
88200	87829	402.156	-57.514	-49.730	14.94775	0.54592	1.86749	3.8666	2.5911
88400	88027	402.265	-57.405	-49.669	15.13179	0.53908	1.84814	3.8478	2.5664
88600	88225	402.374	-57.296	-49.609	15.31601	0.53226	1.82884	3.8290	2.5417
88800	88423	402.483	-57.187	-49.549	15.50041	0.52546	1.80959	3.8103	2.5171
89000	88622	402.591	-57.079	-49.488	15.68500 + 1	0.51868 - 1	1.79030 - 2	3.7916 - 3	2.4926 - 2
89200	88820	402.700	-56.970	-49.428	15.86977	0.51192	1.77106	3.7729	2.4682
89400	89018	402.809	-56.861	-49.367	16.05473	0.50518	1.75187	3.7542	2.4439
89600	89217	402.918	-56.752	-49.307	16.23987	0.49846	1.73272	3.7356	2.4197
89800	89415	403.027	-56.643	-49.246	16.42519	0.49176	1.71361	3.7170	2.3956
90000	89613	403.135	-56.535	-49.186	16.61069	0.48508	1.69454	3.6985	2.3716
90200	89812	403.244	-56.426	-49.125	16.79637	0.47842	1.67551	3.6796	2.3477
90400	90010	403.353	-56.317	-49.065	16.98223	0.47178	1.65652	3.6607	2.3239
90600	90208	403.462	-56.208	-49.005	17.16827	0.46516	1.63757	3.6419	2.2999
90800	90406	403.571	-56.099	-48.944	17.35449	0.45856	1.61866	3.6232	2.2761

TABLE IX.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	T, °F	T, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
91000	91000	604.096	-55.778	-48.743	1.65110 + 1	4.07570 - 1	1.62951 - 2	1.6003 - 3	2.0926 - 2
91200	91601	604.096	-55.664	-48.702	1.65305	4.07066	1.61644	1.5951	2.0727
91400	91992	604.116	-55.554	-48.641	1.65476	4.78205	1.59955	1.5760	2.0550
91600	92384	604.225	-55.443	-48.580	1.65619	4.76167	1.58178	1.5551	2.0355
91800	92766	604.333	-55.333	-48.519	1.65746	4.69010	1.57015	1.5403	2.0162
92000	93149	604.443	-55.225	-48.458	1.65857	4.61875	1.55547	1.5257	1.9950
92200	93531	604.555	-55.115	-48.397	1.65976	4.54712	1.54132	1.5112	1.9741
92400	93911	604.664	-55.004	-48.334	1.66076	4.47528	1.52710	1.4969	1.9528
92600	94293	604.776	-54.894	-48.276	1.66157	4.40374	1.51302	1.4827	1.9306
92800	94675	604.888	-54.786	-48.215	1.66209	4.33243	1.49900	1.4684	1.9080
93000	95057	604.994	-54.676	-48.154	1.66294 + 1	4.26116 - 1	1.48529 - 2	1.4547 - 3	1.8852 - 2
93200	95439	605.103	-54.567	-48.093	1.66310	4.18986	1.47150	1.4409	1.8621
93400	95821	605.213	-54.457	-48.032	1.66351	4.11861	1.45761	1.4272	1.8386
93600	96202	605.323	-54.347	-47.971	1.66375	4.04744	1.44364	1.4137	1.8148
93800	96584	605.432	-54.238	-47.910	1.66377	3.97626	1.42961	1.4003	1.7911
94000	96966	605.542	-54.128	-47.849	1.66353	3.90529	1.41554	1.3870	1.7673
94200	97347	605.652	-54.018	-47.788	1.66331	3.83441	1.40150	1.3739	1.7436
94400	97729	605.762	-53.908	-47.727	1.66311	3.76364	1.38747	1.3609	1.7198
94600	98111	605.871	-53.799	-47.664	1.66294	3.69300	1.37347	1.3480	1.6962
94800	98493	605.981	-53.689	-47.603	1.66279	3.62249	1.35950	1.3353	1.6726
95000	98875	606.091	-53.579	-47.540	1.66270 + 1	4.05172 - 1	1.35513 - 2	1.3224 - 3	1.7295 - 2
95200	99257	606.201	-53.469	-47.479	1.66296	4.01649	1.34169	1.3101	1.7132
95400	99639	606.310	-53.359	-47.418	1.66349	3.97762	1.32756	1.2978	1.6970
95600	100021	606.420	-53.249	-47.357	1.66381	3.93810	1.31316	1.2859	1.6809
95800	100402	606.530	-53.139	-47.296	1.66392	3.89892	1.30006	1.2733	1.6651
96000	100784	606.639	-53.031	-47.235	1.66392	3.86000	1.28900	1.2613	1.6495
96200	101166	606.749	-52.921	-47.174	1.66385	3.82135	1.28122	1.2499	1.6338
96400	101547	606.859	-52.811	-47.117	1.66369	3.78294	1.26967	1.2380	1.6183
96600	101929	606.969	-52.701	-47.054	1.66350	3.74458	1.25783	1.2259	1.6031
96800	102311	607.078	-52.592	-46.995	1.66328	3.70626	1.24630	1.2144	1.5879
97000	102693	607.188	-52.482	-46.934	1.66312 + 1	3.66790 - 1	1.23488 - 2	1.2029 - 3	1.5730 - 2
97200	103075	607.298	-52.372	-46.873	1.66310	3.62954	1.22354	1.1916	1.5581
97400	103457	607.408	-52.262	-46.812	1.66324	3.59121	1.21235	1.1803	1.5434
97600	103839	607.517	-52.153	-46.752	1.66322	3.55292	1.20125	1.1692	1.5289
97800	104221	607.627	-52.043	-46.691	1.66322	3.51464	1.19029	1.1582	1.5145
98000	104603	607.737	-51.933	-46.630	1.66322	3.47637	1.17935	1.1473	1.5002
98200	104985	607.846	-51.824	-46.569	1.66322	3.43810	1.16857	1.1365	1.4861
98400	105367	607.956	-51.714	-46.508	1.66322	3.40000	1.15788	1.1258	1.4721
98600	105749	608.066	-51.604	-46.447	1.66322	3.36200	1.14729	1.1152	1.4583
98800	106131	608.176	-51.494	-46.386	1.66322	3.32400	1.13680	1.1047	1.4445
99000	106513	608.285	-51.385	-46.325	1.66322 + 1	3.28600 - 1	1.12641 - 2	1.0943 - 3	1.4309 - 2
99200	106895	608.395	-51.275	-46.264	1.66322	3.24800	1.11611	1.0840	1.4175
99400	107277	608.505	-51.165	-46.203	1.66322	3.21000	1.10592	1.0738	1.4042
99600	107659	608.615	-51.055	-46.142	1.66322	3.17200	1.09582	1.0637	1.3910
99800	108041	608.725	-50.945	-46.081	1.66322	3.13400	1.08581	1.0537	1.3779
100000	108423	608.835	-50.835	-46.020	1.66322	3.09600	1.07590	1.0438	1.3649
100200	108805	608.945	-50.725	-45.959	1.66322	3.05800	1.06600	1.0340	1.3521
100400	109187	609.055	-50.615	-45.898	1.66322	3.02000	1.05635	1.0243	1.3396
100600	109569	609.165	-50.505	-45.837	1.66322	2.98200	1.04672	1.0147	1.3269
100800	109951	609.275	-50.395	-45.776	1.66322	2.94400	1.03717	1.0052	1.3144
101000	110333	609.385	-50.285	-45.715	1.66322 + 1	2.90600 - 1	1.02772 - 2	0.9957 - 3	1.3021 - 2
101200	110715	609.495	-50.175	-45.654	1.66322	2.86800	1.01835	0.9864	1.2899
101400	111097	609.605	-50.065	-45.593	1.66322	2.83000	1.00907	0.97716	1.2778
101600	111479	609.715	-49.955	-45.532	1.66322	2.79200	0.99981	0.96800	1.2658
101800	111861	609.825	-49.845	-45.471	1.66322	2.75400	0.99076	0.95893	1.2539
102000	112243	609.935	-49.735	-45.410	1.66322	2.71600	0.98175	0.94995	1.2422
102200	112625	610.045	-49.625	-45.349	1.66322	2.67800	0.97281	0.94105	1.2305
102400	113007	610.155	-49.515	-45.288	1.66322	2.64000	0.96396	0.93224	1.2190
102600	113389	610.265	-49.405	-45.228	1.66322	2.60200	0.95507	0.92351	1.2076
102800	113771	610.375	-49.295	-45.167	1.66322	2.56400	0.94611	0.91484	1.1963
103000	114153	610.485	-49.185	-45.106	1.66322 + 1	2.52600 - 1	0.93726 - 2	0.90630 - 3	1.1851 - 2
103200	114535	610.595	-49.075	-45.045	1.66322	2.48800	0.92835	0.89783	1.1740
103400	114917	610.705	-48.965	-44.984	1.66322	2.45000	0.91945	0.88893	1.1630
103600	115299	610.815	-48.855	-44.923	1.66322	2.41200	0.91055	0.87995	1.1522
103800	115681	610.925	-48.745	-44.862	1.66322	2.37400	0.90165	0.87105	1.1414
104000	116063	611.035	-48.635	-44.801	1.66322	2.33600	0.89275	0.86212	1.1307
104200	116445	611.145	-48.525	-44.740	1.66322	2.29800	0.88385	0.85344	1.1202
104400	116827	611.255	-48.415	-44.679	1.66322	2.26000	0.87495	0.84484	1.1097
104600	117209	611.365	-48.305	-44.618	1.66322	2.22200	0.86605	0.83602	1.0993
104800	117591	611.475	-48.195	-44.557	1.66322	2.18400	0.85715	0.82717	1.0891
105000	117973	611.585	-48.085	-44.496	1.66322 + 1	2.14600 - 1	0.84825 - 2	0.81827 - 3	1.0790 - 2
105200	118355	611.695	-47.975	-44.435	1.66322	2.10800	0.83935	0.80935	1.0692
105400	118737	611.805	-47.865	-44.374	1.66322	2.07000	0.83045	0.80045	1.0595
105600	119119	611.915	-47.755	-44.313	1.66322	2.03200	0.82155	0.79155	1.0499
105800	119501	612.025	-47.645	-44.252	1.66322	1.99400	0.81265	0.78265	1.0404
106000	119883	612.135	-47.535	-44.191	1.66322	1.95600	0.80375	0.77375	1.0310
106200	120265	612.245	-47.425	-44.130	1.66322	1.91800	0.79485	0.76485	1.0217
106400	120647	612.355	-47.315	-44.069	1.66322	1.88000	0.78595	0.75595	1.0125
106600	121029	612.465	-47.205	-44.008	1.66322	1.84200	0.77705	0.74705	1.0034
106800	121411	612.575	-47.095	-43.947	1.66322	1.80400	0.76815	0.73815	0.9944
107000	121793	612.685	-46.985	-43.886	1.66322	1.76600	0.75925	0.72925	0.9855
107200	122175	612.795	-46.875	-43.825	1.66322	1.72800	0.75035	0.72035	0.9767
107400	122557	612.905	-46.765	-43.764	1.66322	1.69000	0.74145	0.71145	0.9680
107600	122939	613.015	-46.655	-43.703	1.66322	1.65200	0.73255	0.70255	0.9594
107800	123321	613.125	-46.545	-43.642	1.66322	1.61400	0.72365	0.69365	0.9510
108000	123703	613.235	-46.435	-43.581	1.66322	1.57600	0.71475	0.68475	0.9427
108200	124085	613.345	-46.325	-43.520	1.66322	1.53800	0.70585	0.67585	0.9345
108400	124467	613.455	-46.215	-43.459	1.66322	1.50000	0.69695	0.66695	0.9264
108600	124849	613.565	-46.105	-43.398	1.66322	1.46200	0.68805	0.65805	0.9184
108800	125231	613.675	-45.995	-43.337	1.66322	1.42400	0.67915	0.64915	0.9105
109000	125613	613.785	-45.885	-43.276	1.66322	1.38600	0.67025	0.64025	0.9027
109200	125995	613.895	-45.775	-43.215	1.66322	1.34800	0.66135	0.63135	0.8950
109400	126377	614.005	-45.665	-43.154	1.66322	1.31000	0.65245	0.62245	0.8874
109600	126759	614.115	-45.555	-43.093	1.66322	1.27200	0.64355	0.61355	0.8800
109800	127141	614.225	-45.445	-43.032	1.66322	1.23400	0.63465	0.60465	0.8727
110000	127523	614.335	-45.335	-42.971	1.66322	1.19600	0.62575	0.59575	0.8655

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
91000	90603	405.679	-55.991	-48.884	1.68168 + 1	0.96601 - 1	1.65969 - 2	1.6308 - 5	2.1325 - 2
91200	90803	405.700	-55.982	-48.823	1.68420	0.97051	1.66449	1.6156	2.1154
91400	91001	405.697	-55.773	-48.763	1.65101	0.87544	1.62942	1.6002	2.0974
91600	91199	404.004	-55.640	-48.702	1.63590	0.83680	1.61430	1.5851	2.0727
91800	91395	404.114	-55.554	-48.642	1.62092	0.78458	1.59972	1.5702	2.0532
92000	91594	404.223	-55.467	-48.582	1.60609	0.74277	1.58500	1.5554	2.0359
92200	91794	404.332	-55.338	-48.521	1.59139	0.69938	1.57056	1.5407	2.0167
92400	91992	404.441	-55.229	-48.461	1.57686	0.65640	1.55622	1.5262	1.9958
92600	92191	404.549	-55.121	-48.400	1.56242	0.61382	1.54199	1.5119	1.9770
92800	92389	404.658	-55.012	-48.340	1.54818	0.57165	1.52769	1.4977	1.9594
93000	92587	404.767	-54.903	-48.279	1.53400 + 1	0.52987 - 1	1.51393 - 2	1.4834 - 3	1.9400 - 2
93200	92785	404.876	-54.794	-48.219	1.51997	0.48840	1.50010	1.4696	1.9217
93400	92984	404.984	-54.686	-48.159	1.50609	0.44749	1.48640	1.4558	1.9037
93600	93182	405.093	-54.577	-48.096	1.49236	0.40682	1.47292	1.4421	1.8858
93800	93380	405.202	-54.468	-48.034	1.47878	0.36645	1.45959	1.4286	1.8680
94000	93578	405.311	-54.359	-47.977	1.46522	0.32681	1.44604	1.4152	1.8505
94200	93776	405.419	-54.251	-47.917	1.45184	0.28735	1.43287	1.4019	1.8331
94400	93973	405.528	-54.142	-47.857	1.43862	0.24825	1.41980	1.3887	1.8159
94600	94173	405.637	-54.033	-47.796	1.42550	0.20950	1.40686	1.3757	1.7989
94800	94371	405.746	-53.926	-47.734	1.41251	0.17118	1.39403	1.3628	1.7820
95000	94569	405.854	-53.818	-47.673	1.39963 + 1	0.13312 - 1	1.38133 - 2	1.3500 - 3	1.7653 - 2
95200	94767	405.963	-53.707	-47.613	1.38680	0.09546	1.36875	1.3375	1.7488
95400	94964	406.072	-53.598	-47.555	1.37425	0.05817	1.35628	1.3248	1.7326
95600	95161	406.181	-53.489	-47.494	1.36176	0.02122	1.34393	1.3124	1.7161
95800	95358	406.289	-53.381	-47.434	1.34935	0.00462	1.33170	1.3001	1.7001
96000	95556	406.398	-53.272	-47.373	1.33707	0.00034	1.31958	1.2879	1.6841
96200	95753	406.507	-53.163	-47.313	1.32491	0.01244	1.30758	1.2759	1.6684
96400	95950	406.616	-53.054	-47.252	1.31286	0.07646	1.29569	1.2639	1.6528
96600	96155	406.724	-52.946	-47.192	1.30092	0.04162	1.28391	1.2521	1.6373
96800	96353	406.833	-52.837	-47.132	1.28910	0.00670	1.27226	1.2404	1.6220
97000	96551	406.942	-52.728	-47.071	1.27736 + 1	0.77211 - 1	1.26068 - 2	1.2289 - 3	1.6066 - 2
97200	96749	407.050	-52.620	-47.011	1.26570	0.73786	1.24923	1.2173	1.5910
97400	96947	407.159	-52.511	-46.951	1.25420	0.70390	1.23780	1.2059	1.5769
97600	97145	407.268	-52.402	-46.890	1.24290	0.67027	1.22644	1.1947	1.5627
97800	97343	407.377	-52.293	-46.830	1.23162	0.63696	1.21511	1.1835	1.5487
98000	97542	407.485	-52.185	-46.769	1.22044	0.60394	1.20386	1.1723	1.5351
98200	97740	407.594	-52.076	-46.709	1.20937	0.57127	1.19256	1.1615	1.5218
98400	97938	407.703	-51.967	-46.649	1.19840	0.53888	1.18127	1.1507	1.5084
98600	98136	407.811	-51.859	-46.588	1.18754	0.50680	1.17001	1.1399	1.4950
98800	98334	407.920	-51.750	-46.528	1.17678	0.47502	1.15879	1.1293	1.4767
99000	98532	408.029	-51.641	-46.467	1.16611 + 1	0.44353 - 1	1.15006 - 2	1.1188 - 3	1.4619 - 2
99200	98730	408.137	-51.533	-46.407	1.15555	0.41236	1.14066	1.1083	1.4463
99400	98928	408.246	-51.424	-46.347	1.14509	0.38164	1.13011	1.0980	1.4308
99600	99127	408.355	-51.315	-46.284	1.13472	0.35083	1.11980	1.0878	1.4152
99800	99325	408.463	-51.207	-46.224	1.12445	0.32004	1.10975	1.0776	1.4002
100000	99523	408.572	-51.098	-46.163	1.11428	0.29004	1.09971	1.0676	1.3850
100200	99721	408.681	-50.989	-46.103	1.10420	0.26070	1.08976	1.0577	1.3698
100400	99919	408.790	-50.880	-46.043	1.09421	0.23121	1.07990	1.0478	1.3548
100600	100117	408.898	-50.772	-45.984	1.08432	0.20200	1.07016	1.0381	1.3397
100800	100315	409.007	-50.663	-45.924	1.07452	0.17306	1.06047	1.0286	1.3246
101000	100513	409.116	-50.554	-45.864	1.06481 + 1	0.14439 - 1	1.05089 - 2	1.0189 - 3	1.3125 - 2
101200	100711	409.224	-50.446	-45.803	1.05520	0.11599	1.04140	1.0094	1.3019
101400	100909	409.333	-50.337	-45.743	1.04567	0.08784	1.03199	1.0000	1.2917
101600	101107	409.442	-50.228	-45.682	1.03623	0.05998	1.02268	0.99073 - 4	1.2819
101800	101305	409.550	-50.120	-45.622	1.02680	0.03236	1.01343	0.98152	1.2725
102000	101504	409.658	-50.011	-45.562	1.01741	0.00501	1.00430	0.97241	1.2631
102200	101702	409.766	-49.902	-45.501	1.00803	0.07790	0.99526 - 3	0.96338	1.2537
102400	101900	409.874	-49.794	-45.441	0.99868 + 0	0.05105	0.986272	0.95446	1.2443
102600	102098	409.983	-49.685	-45.381	0.98932	0.02445	0.977361	0.94559	1.2348
102800	102296	410.094	-49.576	-45.320	0.98007	0.00009	0.968574	0.93682	1.2253
103000	102494	410.202	-49.468	-45.260	0.97084 + 0	0.07198 - 1	0.959867 - 3	0.92813 - 4	1.2157 - 2
103200	102692	410.311	-49.359	-45.200	0.96160	0.04412	0.951202	0.91953	1.2062
103400	102890	410.419	-49.251	-45.139	0.95237	0.01629	0.942637	0.91101	1.1973
103600	103088	410.528	-49.142	-45.079	0.94320	0.00000	0.934151	0.90257	1.1882
103800	103286	410.637	-49.033	-45.018	0.93409	0.00000	0.925744	0.89421	1.1793
104000	103484	410.745	-48.925	-44.958	0.92502	0.00000	0.917416	0.88593	1.1702
104200	103682	410.854	-48.816	-44.898	0.91600	0.00000	0.909165	0.87773	1.1617
104400	103880	410.963	-48.707	-44.837	0.90702	0.00000	0.900990	0.86941	1.1531
104600	104078	411.071	-48.599	-44.777	0.89809	0.00000	0.892891	0.86156	1.1446
104800	104276	411.180	-48.490	-44.717	0.88921	0.00000	0.88467	0.85340	1.1362
105000	104474	411.289	-48.381	-44.656	0.88037 + 0	0.00000 - 1	0.875916 - 3	0.84570 - 4	1.1279 - 2
105200	104672	411.398	-48.272	-44.595	0.87156	0.00000	0.867344	0.83750	1.1195
105400	104870	411.507	-48.163	-44.534	0.86278	0.00000	0.858570	0.82865	1.1111
105600	105068	411.616	-48.054	-44.473	0.85402	0.00000	0.850000	0.81974	1.1027
105800	105266	411.725	-47.945	-44.412	0.84528	0.00000	0.841511	0.81143	1.0943
106000	105464	411.834	-47.836	-44.351	0.83656	0.00000	0.833000	0.80236	1.0859
106200	105662	411.943	-47.727	-44.290	0.82786	0.00000	0.824500	0.79371	1.0775
106400	105860	412.052	-47.618	-44.229	0.81918	0.00000	0.815800	0.78492	1.0691
106600	106058	412.161	-47.509	-44.168	0.81052	0.00000	0.807200	0.77643	1.0607
106800	106256	412.270	-47.400	-44.107	0.80188	0.00000	0.798500	0.76794	1.0523
107000	106454	412.379	-47.291	-44.046	0.79326	0.00000	0.789900	0.75935	1.0439
107200	106652	412.488	-47.182	-43.985	0.78466	0.00000	0.781200	0.75076	1.0355
107400	106850	412.597	-47.073	-43.924	0.77608	0.00000	0.772700	0.74221	1.0271
107600	107048	412.706	-46.964	-43.863	0.76752	0.00000	0.764100	0.73372	1.0187
107800	107246	412.815	-46.855	-43.802	0.75898	0.00000	0.755500	0.72523	1.0103
108000	107444	412.924	-46.746	-43.741	0.75046	0.00000	0.746900	0.71684	1.0019
108200	107642	413.033	-46.637	-43.680	0.74196	0.00000	0.738400	0.70775	0.9935
108400	107840	413.142	-46.528	-43.619	0.73348	0.00000	0.729900	0.69866	0.9851
108600	108038	413.251	-46.419	-43.558	0.72502	0.00000	0.721400	0.68957	0.9767
108800	108236	413.360	-46.310	-43.497	0.71658	0.00000	0.712900	0.68048	0.9683
109000	108434	413.469	-46.201	-43.436	0.70816	0.00000	0.704600	0.67139	0.9599
109200	108632	413.578	-46.092	-43.375	0.70000	0.00000	0.700000	0.66230	0.9515

TABLE IV — Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
110500	110583	619.271	-60.309	-60.222	0.92297 + 0	2.06635 - 1	6.83266 - 3	6.4630 - 4	6.4522 - 3
110500	110609	620.039	-39.631	-39.793	6.77608	1.99920	6.68155	6.3095	6.2505
110500	110635	620.807	-38.863	-39.368	6.62084	1.95513	6.53426	6.1591	6.0539
110500	110661	621.575	-38.095	-38.941	6.47515	1.91211	6.39067	6.0126	5.9623
110500	110687	622.343	-37.327	-38.515	6.32922	1.87011	6.25011	5.8699	5.8256
110500	110713	623.112	-36.559	-38.088	6.19407	1.82911	6.11507	5.7307	5.6887
110500	110739	623.880	-35.791	-37.661	6.05850	1.78900	5.97928	5.5952	5.5534
110500	110765	624.648	-35.023	-37.235	5.92416	1.74999	5.85005	5.4650	5.4234
110500	110791	625.416	-34.255	-36.808	5.79001	1.71183	5.72110	5.3342	5.2928
110500	110817	626.184	-33.487	-36.382	5.65701	1.67456	5.59458	5.2087	5.1671
110500	110843	626.952	-32.719	-35.956	5.52409	1.63817	5.47099	5.0844	5.0428
110500	110869	627.720	-31.951	-35.529	5.39215	1.60264	5.35010	4.9671	4.9255
110500	110895	628.488	-31.183	-35.101	5.26024	1.56793	5.23020	4.8508	4.8091
110500	110921	629.256	-30.415	-34.674	5.12832	1.53404	5.11249	4.7375	4.6958
110500	110947	630.024	-29.647	-34.248	5.00000	1.50094	5.01631	4.6270	4.5853
110500	110973	630.792	-28.879	-33.821	4.87217	1.46862	4.90827	4.5193	4.4776
110500	111000	631.560	-28.111	-33.394	4.74400	1.43704	4.80276	4.4142	4.3725
110500	111026	632.328	-27.343	-32.967	4.61600	1.40620	4.69966	4.3110	4.2693
110500	111052	633.096	-26.575	-32.541	4.48800	1.37607	4.59907	4.2119	4.1702
110500	111078	633.864	-25.807	-32.114	4.36024	1.34664	4.50061	4.1146	4.0729
120500	120583	634.632	-25.039	-31.687	4.23280 + 0	1.31799 - 1	4.40452 - 3	4.0196 - 4	3.9779 - 3
120500	120609	635.400	-24.271	-31.260	4.10580	1.28980	4.31065	3.9270	3.8853
120500	120635	636.168	-23.503	-30.833	3.97880	1.26244	4.21896	3.8367	3.7950
120500	120661	636.936	-22.735	-30.406	3.85180	1.23593	4.12933	3.7486	3.7069
120500	120687	637.704	-21.967	-29.979	3.72480	1.21035	4.04178	3.6627	3.6210
120500	120713	638.472	-21.199	-29.552	3.59780	1.18576	3.95624	3.5789	3.5372
120500	120739	639.240	-20.431	-29.125	3.47080	1.16211	3.87265	3.4971	3.4554
120500	120765	640.008	-19.663	-28.698	3.34380	1.13941	3.79097	3.4176	3.3759
120500	120791	640.776	-18.895	-28.271	3.21680	1.11762	3.71115	3.3394	3.2977
120500	120817	641.544	-18.127	-27.844	3.08980	1.09670	3.63314	3.2637	3.2220
120500	120843	642.312	-17.359	-27.417	2.96280	1.07670	3.55691	3.1897	3.1480
120500	120869	643.080	-16.591	-26.990	2.83580	1.05760	3.48240	3.1175	3.0758
120500	120895	643.848	-15.823	-26.563	2.70880	1.03940	3.40950	3.0470	3.0053
120500	120921	644.616	-15.055	-26.136	2.58180	1.02210	3.33841	2.9782	2.9365
120500	120947	645.384	-14.287	-25.709	2.45480	1.00570	3.26880	2.9111	2.8694
120500	120973	646.152	-13.519	-25.282	2.32780	0.99020	3.20080	2.8457	2.8040
120500	121000	646.920	-12.751	-24.855	2.20080	0.97570	3.13435	2.7818	2.7401
120500	121026	647.688	-11.983	-24.428	2.07380	0.96210	3.06937	2.7196	2.6779
120500	121052	648.456	-11.215	-24.001	1.94680	0.94940	3.00586	2.6586	2.6169
120500	121078	649.224	-10.447	-23.574	1.82000	0.93760	2.94373	2.5992	2.5575
130500	130583	649.992	-9.679	-23.147	1.69300 + 0	0.92670 - 1	2.88300 - 3	2.5412 - 4	2.4995 - 3
130500	130609	650.760	-8.911	-22.720	1.56600	0.91580	2.82363	2.4847	2.4430
130500	130635	651.528	-8.143	-22.293	1.43900	0.90590	2.76550	2.4294	2.3877
130500	130661	652.296	-7.375	-21.866	1.31200	0.89600	2.70880	2.3755	2.3338
130500	130687	653.064	-6.607	-21.439	1.18500	0.88710	2.65332	2.3229	2.2812
130500	130713	653.832	-5.839	-21.012	1.05800	0.87820	2.59905	2.2715	2.2298
130500	130739	654.600	-5.071	-20.585	0.93100	0.86930	2.54597	2.2214	2.1797
130500	130765	655.368	-4.303	-20.158	0.80400	0.86040	2.49407	2.1724	2.1307
130500	130791	656.136	-3.535	-19.731	0.67700	0.85150	2.44330	2.1246	2.0829
130500	130817	656.904	-2.767	-19.304	0.55000	0.84260	2.39366	2.0780	2.0363
130500	130843	657.672	-1.999	-18.877	0.42300	0.83370	2.34510	2.0324	1.9907
130500	130869	658.440	-1.231	-18.450	0.29600	0.82480	2.29760	1.9879	1.9462
130500	130895	659.208	-0.463	-18.023	0.16900	0.81590	2.25116	1.9465	1.9048
130500	130921	659.976	0.305	-17.596	0.04200	0.80700	2.20572	1.9060	1.8643
130500	130947	660.744	1.073	-17.169	0.00000	0.79810	2.16127	1.8666	1.8249
130500	130973	661.512	1.841	-16.742	0.00000	0.78920	2.11779	1.8281	1.7864
130500	131000	662.280	2.609	-16.315	0.00000	0.78030	2.07525	1.7906	1.7489
130500	131026	663.048	3.377	-15.888	0.00000	0.77140	2.03371	1.7540	1.7123
130500	131052	663.816	4.145	-15.461	0.00000	0.76250	1.99317	1.7183	1.6766
130500	131078	664.584	4.913	-15.034	0.00000	0.75360	1.95363	1.6835	1.6418
140500	140583	665.352	5.681	-14.607	0.00000 + 0	0.74470 - 1	1.91413 - 3	1.6485 - 4	1.6068 - 3
140500	140609	666.120	6.449	-14.180	0.00000	0.73580	1.87460	1.5966	1.5549
140500	140635	666.888	7.217	-13.753	0.00000	0.72690	1.83506	1.5461	1.5044
140500	140661	667.656	7.985	-13.326	0.00000	0.71800	1.79552	1.4966	1.4549
140500	140687	668.424	8.753	-12.899	0.00000	0.70910	1.75598	1.4481	1.4064
140500	140713	669.192	9.521	-12.472	0.00000	0.70020	1.71644	1.4006	1.3589
140500	140739	670.000	10.289	-12.045	0.00000	0.69130	1.67690	1.3541	1.3124
140500	140765	670.808	11.057	-11.618	0.00000	0.68240	1.63736	1.3086	1.2669
140500	140791	671.616	11.825	-11.191	0.00000	0.67350	1.59782	1.2641	1.2224
140500	140817	672.424	12.593	-10.764	0.00000	0.66460	1.55828	1.2206	1.1789
140500	140843	673.232	13.361	-10.337	0.00000	0.65570	1.51874	1.1781	1.1364
140500	140869	674.040	14.129	-9.910	0.00000	0.64680	1.47920	1.1366	1.0949
140500	140895	674.848	14.897	-9.483	0.00000	0.63790	1.43966	1.0951	1.0534
140500	140921	675.656	15.665	-9.056	0.00000	0.62900	1.39912	1.0546	1.0129
140500	140947	676.464	16.433	-8.629	0.00000	0.62010	1.35858	1.0141	0.9724
140500	140973	677.272	17.201	-8.202	0.00000	0.61120	1.31804	0.9736	0.9319
140500	141000	678.080	17.969	-7.775	0.00000	0.60230	1.27750	0.9331	0.8914
140500	141026	678.888	18.737	-7.348	0.00000	0.59340	1.23696	0.8926	0.8509
140500	141052	679.696	19.505	-6.921	0.00000	0.58450	1.19642	0.8521	0.8104
140500	141078	680.504	20.273	-6.494	0.00000	0.57560	1.15588	0.8116	0.7699
140500	141104	681.312	21.041	-6.067	0.00000	0.56670	1.11534	0.7711	0.7294

TABLE IX — Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
110000	109423	418.584	-41.264	-40.714	7.10413	2.09785	7.01123	6.4470	0.4918
110500	109418	419.144	-40.526	-40.292	6.94856	2.05190	6.85748	6.4044	0.4860
111000	110412	419.704	-39.764	-39.490	6.79464	2.00705	6.70774	6.3563	0.4805
111500	110407	420.264	-39.004	-38.730	6.64232	1.96322	6.52132	6.3088	0.4751
112000	111402	421.824	-38.244	-37.970	6.49155	1.92049	6.43888	6.2611	0.4696
112500	111396	422.384	-37.484	-37.210	6.34213	1.87874	6.35894	6.2132	0.4642
113000	112391	422.944	-36.724	-36.450	6.19407	1.83797	6.28067	6.1650	0.4587
113500	112386	423.504	-35.964	-35.690	6.04626	1.79815	6.20402	6.1165	0.4533
114000	113380	424.064	-35.204	-34.930	5.89528	1.75927	6.12897	6.0678	0.4478
114500	113375	424.624	-34.444	-34.170	5.74608	1.72130	6.05527	6.0189	0.4424
115000	114369	425.184	-33.684	-33.410	5.59862	1.68422	5.98284	5.9612	0.4369
115500	114364	425.744	-32.924	-32.650	5.45387	1.64800	5.91079	5.9119	0.4315
116000	115358	426.304	-32.164	-31.890	5.31087	1.61262	5.83958	5.8622	0.4260
116500	115353	426.864	-31.404	-31.130	5.16962	1.57807	5.76907	5.8096	0.4206
117000	116347	427.424	-30.644	-30.370	5.03005	1.54432	5.69922	5.7571	0.4151
117500	116342	427.984	-29.884	-29.610	4.89215	1.51134	5.63007	5.6871	0.4097
118000	117336	428.544	-29.124	-28.850	4.75593	1.47913	5.56152	5.6385	0.4042
118500	117331	429.104	-28.364	-28.090	4.62136	1.44767	5.49362	5.5899	0.3988
119000	118325	429.664	-27.604	-27.330	4.48845	1.41693	5.42632	5.5413	0.3933
119500	118320	430.224	-26.844	-26.570	4.35619	1.38689	5.35957	5.4928	0.3879
120000	119314	430.784	-26.084	-25.810	4.22558	1.35754	5.29332	5.4442	0.3824
120500	119309	431.344	-25.324	-25.050	4.09662	1.32880	5.22757	5.3957	0.3770
121000	120303	431.904	-24.564	-24.290	3.96831	1.30065	5.16222	5.3471	0.3715
121500	120298	432.464	-23.804	-23.530	3.84165	1.27347	5.09737	5.2986	0.3661
122000	121292	433.024	-23.044	-22.770	3.71664	1.24671	5.03292	5.2499	0.3607
122500	121287	433.584	-22.284	-22.010	3.59328	1.22034	4.96897	5.2014	0.3552
123000	122281	434.144	-21.524	-21.250	3.47157	1.19501	4.90552	5.1528	0.3498
123500	122276	434.704	-20.764	-20.490	3.35151	1.17004	4.84257	5.1043	0.3443
124000	123270	435.264	-20.004	-19.730	3.23319	1.14562	4.78002	5.0558	0.3389
124500	123265	435.824	-19.244	-18.970	3.11652	1.12177	4.71797	5.0073	0.3334
125000	124259	436.384	-18.484	-18.210	3.00156	1.09844	4.65632	4.9588	0.3279
125500	124254	436.944	-17.724	-17.450	2.88875	1.07565	4.59507	4.9103	0.3225
126000	125248	437.504	-16.964	-16.690	2.77809	1.05336	4.53422	4.8618	0.3170
126500	125243	438.064	-16.204	-15.930	2.66958	1.03158	4.47377	4.8133	0.3116
127000	126237	438.624	-15.444	-15.170	2.56327	1.01029	4.41372	4.7648	0.3061
127500	126232	439.184	-14.684	-14.410	2.45921	0.98949	4.35407	4.7163	0.3007
128000	127226	439.744	-13.924	-13.650	2.35729	0.96916	4.29482	4.6678	0.2952
128500	127221	440.304	-13.164	-12.890	2.25752	0.94929	4.23597	4.6193	0.2898
129000	128215	440.864	-12.404	-12.130	2.15989	0.92984	4.17752	4.5708	0.2843
129500	128210	441.424	-11.644	-11.370	2.06432	0.91071	4.11947	4.5223	0.2789
130000	129204	441.984	-10.884	-10.610	1.97081	0.89193	4.06172	4.4738	0.2734
130500	129199	442.544	-10.124	-9.850	1.87936	0.87348	4.00427	4.4253	0.2680
131000	130193	443.104	-9.364	-9.090	1.78997	0.85536	3.94712	4.3768	0.2625
131500	130188	443.664	-8.604	-8.330	1.70264	0.83757	3.89027	4.3283	0.2571
132000	131182	444.224	-7.844	-7.570	1.61737	0.82009	3.83372	4.2798	0.2516
132500	131177	444.784	-7.084	-6.810	1.53406	0.80292	3.77747	4.2313	0.2462
133000	132171	445.344	-6.324	-6.050	1.45271	0.78607	3.72142	4.1828	0.2407
133500	132166	445.904	-5.564	-5.290	1.37332	0.76952	3.66567	4.1343	0.2353
134000	133160	446.464	-4.804	-4.530	1.29589	0.75327	3.61022	4.0858	0.2298
134500	133155	447.024	-4.044	-3.770	1.22042	0.73732	3.55507	4.0373	0.2244
135000	134149	447.584	-3.284	-3.010	1.14691	0.72167	3.50022	3.9888	0.2189
135500	134144	448.144	-2.524	-2.250	1.07536	0.70632	3.44567	3.9403	0.2135
136000	135138	448.704	-1.764	-1.490	1.00577	0.69127	3.39142	3.8918	0.2080
136500	135133	449.264	-1.004	-0.730	0.93814	0.67652	3.33747	3.8433	0.2026
137000	136127	449.824	-0.244	-0.070	0.87247	0.66207	3.28382	3.7948	0.1971
137500	136122	450.384	0.516	0.242	0.80876	0.64792	3.23047	3.7463	0.1917
138000	137116	450.944	1.276	1.002	0.74601	0.63407	3.17742	3.6978	0.1862
138500	137111	451.504	2.036	1.762	0.68522	0.62042	3.12467	3.6493	0.1808
139000	138105	452.064	2.796	2.522	0.62637	0.60707	3.07222	3.6008	0.1753
139500	138100	452.624	3.556	3.278	0.56946	0.59392	3.02007	3.5523	0.1699
140000	139094	453.184	4.316	4.030	0.51449	0.58107	2.96822	3.5038	0.1644
140500	139089	453.744	5.076	4.790	0.46146	0.56842	2.91667	3.4553	0.1590
141000	140083	454.304	5.836	5.550	0.41027	0.55607	2.86542	3.4068	0.1535
141500	140078	454.864	6.596	6.310	0.36092	0.54392	2.81447	3.3583	0.1481
142000	141072	455.424	7.356	7.070	0.31341	0.53207	2.76382	3.3098	0.1426
142500	141067	455.984	8.116	7.830	0.26774	0.52042	2.71347	3.2613	0.1372
143000	142061	456.544	8.876	8.590	0.22391	0.50897	2.66342	3.2128	0.1317
143500	142056	457.104	9.636	9.350	0.18192	0.49772	2.61367	3.1643	0.1263
144000	143050	457.664	10.396	10.110	0.14177	0.48667	2.56422	3.1158	0.1208
144500	143045	458.224	11.156	10.870	0.10346	0.47582	2.51507	3.0673	0.1154
145000	144039	458.784	11.916	11.630	0.06689	0.46517	2.46622	3.0188	0.1100
145500	144034	459.344	12.676	12.390	0.03206	0.45472	2.41767	2.9703	0.1045
146000	145028	459.904	13.436	13.150	0.00897	0.44447	2.36942	2.9218	0.0991
146500	145023	460.464	14.196	13.910	0.00372	0.43442	2.32147	2.8733	0.0936
147000	146017	461.024	14.956	14.670	0.00157	0.42457	2.27382	2.8248	0.0882
147500	146012	461.584	15.716	15.430	0.00062	0.41492	2.22647	2.7763	0.0827
148000	147006	462.144	16.476	16.190	0.00027	0.40547	2.17942	2.7278	0.0773
148500	147001	462.704	17.236	16.950	0.00012	0.39622	2.13267	2.6793	0.0718
149000	147995	463.264	17.996	17.710	0.00007	0.38717	2.08622	2.6308	0.0664
149500	147990	463.824	18.756	18.470	0.00002	0.37832	2.04007	2.5823	0.0610

TABLE IX.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
M, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
150000	151007	486.718	21.645	-6.066	1.30444	3.85344	1.28708	1.8626	1.3896
150500	151506	487.407	21.617	-6.057	1.27977	3.77915	1.26305	1.8465	1.3696
151000	152001	488.255	22.505	-5.251	1.25512	3.70456	1.23971	1.8188	1.3422
151500	152499	489.023	23.353	-4.806	1.23048	3.63009	1.21680	1.7915	1.3225
152000	152991	489.791	24.121	-3.377	1.20575	3.55584	1.19356	1.7693	1.2775
152500	153483	490.559	24.609	-3.950	1.18120	3.48195	1.16872	1.7466	1.2516
153000	153975	491.327	25.457	-3.525	1.15655	3.40802	1.14385	1.7249	1.2251
153500	154468	492.095	26.125	-3.097	1.13195	3.33447	1.11865	1.7033	1.1990
154000	154960	492.863	27.105	-2.670	1.10730	3.26026	1.10299	1.6817	1.1750
154500	155453	493.631	27.500	-2.500	1.08261	3.18570	1.08717	1.6601	1.1519
155000	155945	494.400	27.500	-2.500	1.05792	3.11114	1.07132	1.6385	1.1288
155500	156438	495.168	27.500	-2.500	1.03323	3.03658	1.05548	1.6169	1.1057
156000	156930	495.937	27.500	-2.500	1.00854	2.96202	1.03964	1.5953	1.0826
156500	157423	496.705	27.500	-2.500	0.98385	2.88746	1.02380	1.5737	1.0595
157000	157915	497.473	27.500	-2.500	0.95916	2.81290	1.00796	1.5521	1.0364
157500	158408	498.241	27.500	-2.500	0.93447	2.73834	0.99212	1.5305	1.0133
158000	158900	499.010	27.500	-2.500	0.90978	2.66378	0.97628	1.5089	0.9902
158500	159393	499.778	27.500	-2.500	0.88509	2.58922	0.96044	1.4873	0.9671
159000	159885	500.546	27.500	-2.500	0.86040	2.51466	0.94460	1.4657	0.9440
159500	160378	501.314	27.500	-2.500	0.83571	2.44010	0.92876	1.4441	0.9209
160000	160870	502.082	27.500	-2.500	0.81102	2.36554	0.91292	1.4225	0.8978
160500	161363	502.850	27.500	-2.500	0.78633	2.29098	0.89708	1.4009	0.8747
161000	161855	503.618	27.500	-2.500	0.76164	2.21642	0.88124	1.3793	0.8516
161500	162348	504.386	27.500	-2.500	0.73695	2.14186	0.86540	1.3577	0.8285
162000	162840	505.154	27.500	-2.500	0.71226	2.06730	0.84956	1.3361	0.8054
162500	163333	505.922	27.500	-2.500	0.68757	1.99274	0.83372	1.3145	0.7823
163000	163825	506.690	27.500	-2.500	0.66288	1.91818	0.81788	1.2929	0.7592
163500	164318	507.458	27.500	-2.500	0.63819	1.84362	0.80204	1.2713	0.7361
164000	164810	508.226	27.500	-2.500	0.61350	1.76906	0.78620	1.2497	0.7130
164500	165303	508.994	27.500	-2.500	0.58881	1.69450	0.77036	1.2281	0.6899
165000	165795	509.762	27.500	-2.500	0.56412	1.61994	0.75452	1.2065	0.6668
165500	166288	510.530	27.500	-2.500	0.53943	1.54538	0.73868	1.1849	0.6437
166000	166780	511.298	27.500	-2.500	0.51474	1.47082	0.72284	1.1633	0.6206
166500	167273	512.066	27.500	-2.500	0.49005	1.39626	0.70699	1.1417	0.5975
167000	167765	512.834	27.500	-2.500	0.46536	1.32170	0.69115	1.1201	0.5744
167500	168258	513.602	27.500	-2.500	0.44067	1.24714	0.67531	1.0985	0.5513
168000	168750	514.370	27.500	-2.500	0.41598	1.17258	0.65947	1.0769	0.5282
168500	169243	515.138	27.500	-2.500	0.39129	1.09802	0.64363	1.0553	0.5051
169000	169735	515.906	27.500	-2.500	0.36660	1.02346	0.62779	1.0337	0.4820
169500	170228	516.674	27.500	-2.500	0.34191	0.94890	0.61195	1.0121	0.4589
170000	170720	517.442	27.500	-2.500	0.31722	0.87434	0.59611	0.9905	0.4358
170500	171213	518.210	27.500	-2.500	0.29253	0.79978	0.58027	0.9689	0.4127
171000	171705	518.978	27.500	-2.500	0.26784	0.72522	0.56443	0.9473	0.3896
171500	172198	519.746	27.500	-2.500	0.24315	0.65066	0.54859	0.9257	0.3665
172000	172690	520.514	27.500	-2.500	0.21846	0.57610	0.53275	0.9041	0.3434
172500	173183	521.282	27.500	-2.500	0.19377	0.50154	0.51691	0.8825	0.3203
173000	173675	522.050	27.500	-2.500	0.16908	0.42698	0.50107	0.8609	0.2972
173500	174168	522.818	27.500	-2.500	0.14439	0.35242	0.48523	0.8393	0.2741
174000	174660	523.586	27.500	-2.500	0.11970	0.27786	0.46939	0.8177	0.2510
174500	175153	524.354	27.500	-2.500	0.09501	0.20330	0.45355	0.7961	0.2279
175000	175645	525.122	27.500	-2.500	0.07032	0.12874	0.43771	0.7745	0.2048
175500	176138	525.890	27.500	-2.500	0.04563	0.05418	0.42187	0.7529	0.1817
176000	176630	526.658	27.500	-2.500	0.02094	0.00000	0.40603	0.7313	0.1586
176500	177123	527.426	27.500	-2.500	0.00000	0.00000	0.39019	0.7097	0.1355
177000	177615	528.194	27.500	-2.500	0.00000	0.00000	0.37435	0.6881	0.1124
177500	178108	528.962	27.500	-2.500	0.00000	0.00000	0.35851	0.6665	0.0893
178000	178600	529.730	27.500	-2.500	0.00000	0.00000	0.34267	0.6449	0.0662
178500	179093	530.498	27.500	-2.500	0.00000	0.00000	0.32683	0.6233	0.0431
179000	179585	531.266	27.500	-2.500	0.00000	0.00000	0.31099	0.6017	0.0200
179500	180078	532.034	27.500	-2.500	0.00000	0.00000	0.29515	0.5801	0.0000
180000	180570	532.802	27.500	-2.500	0.00000	0.00000	0.27931	0.5585	0.0000
180500	181063	533.570	27.500	-2.500	0.00000	0.00000	0.26347	0.5369	0.0000
181000	181555	534.338	27.500	-2.500	0.00000	0.00000	0.24763	0.5153	0.0000
181500	182048	535.106	27.500	-2.500	0.00000	0.00000	0.23179	0.4937	0.0000
182000	182540	535.874	27.500	-2.500	0.00000	0.00000	0.21595	0.4721	0.0000
182500	183033	536.642	27.500	-2.500	0.00000	0.00000	0.19999	0.4505	0.0000
183000	183525	537.410	27.500	-2.500	0.00000	0.00000	0.18403	0.4289	0.0000
183500	184018	538.178	27.500	-2.500	0.00000	0.00000	0.16807	0.4073	0.0000
184000	184510	538.946	27.500	-2.500	0.00000	0.00000	0.15211	0.3857	0.0000
184500	185003	539.714	27.500	-2.500	0.00000	0.00000	0.13615	0.3641	0.0000
185000	185495	540.482	27.500	-2.500	0.00000	0.00000	0.12019	0.3425	0.0000
185500	185988	541.250	27.500	-2.500	0.00000	0.00000	0.10423	0.3209	0.0000
186000	186480	542.018	27.500	-2.500	0.00000	0.00000	0.08827	0.2993	0.0000
186500	186973	542.786	27.500	-2.500	0.00000	0.00000	0.07231	0.2777	0.0000
187000	187465	543.554	27.500	-2.500	0.00000	0.00000	0.05635	0.2561	0.0000
187500	187958	544.322	27.500	-2.500	0.00000	0.00000	0.04039	0.2345	0.0000
188000	188450	545.090	27.500	-2.500	0.00000	0.00000	0.02443	0.2129	0.0000
188500	188943	545.858	27.500	-2.500	0.00000	0.00000	0.00847	0.1913	0.0000
189000	189435	546.626	27.500	-2.500	0.00000	0.00000	0.00000	0.1697	0.0000
189500	189928	547.394	27.500	-2.500	0.00000	0.00000	0.00000	0.1481	0.0000

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
150000	160929	679.073	19.403	-4.998	1.38070	4.01815	1.34291	1.1119	1.4539
150500	160922	679.950	19.188	-4.576	1.37675	3.99168	1.31728	1.0889	1.4239
151000	160916	680.587	20.017	-4.157	1.36930	3.88637	1.29210	1.0665	1.3966
151500	160907	681.504	21.074	-3.738	1.35840	3.79282	1.26760	1.0446	1.3699
152000	160895	682.121	22.431	-3.318	1.34500	3.72079	1.24355	1.0231	1.3439
152500	160883	682.638	23.188	-2.899	1.32811	3.65024	1.21995	1.0021	1.3186
153000	160867	683.615	23.945	-2.479	1.31211	3.58116	1.19685	0.9815	1.2936
153500	160850	684.272	24.702	-2.059	1.29709	3.51363	1.17423	0.9613	1.2690
154000	160831	685.129	25.459	-1.639	1.28315	3.44775	1.15267	0.9415	1.2447
154500	160804	685.886	26.216	-1.218	1.26936	3.38350	1.13237	0.9227	1.2206
155000	160784	686.643	26.973	-0.797	1.25560	3.31980	1.10910	0.9040	1.1967
155500	160764	687.170	27.500	-0.500	1.24209	3.25625	1.08627	0.8866	1.1730
156000	160742	687.170	27.500	-0.500	1.22879	3.19312	1.06379	0.8693	1.1495
156500	160719	687.170	27.500	-0.500	1.21563	3.13033	1.04167	0.8530	1.1262
157000	160694	687.170	27.500	-0.500	1.20261	3.06779	1.01989	0.8370	1.1030
157500	160667	687.170	27.500	-0.500	1.18972	3.00540	0.99845	0.8210	1.0797
158000	160638	687.170	27.500	-0.500	1.17696	2.94317	0.97734	0.8050	1.0563
158500	160607	687.170	27.500	-0.500	1.16432	2.88100	0.95654	0.7890	1.0329
159000	160574	687.170	27.500	-0.500	1.15180	2.81889	0.93603	0.7730	1.0094
159500	160539	687.170	27.500	-0.500	1.13939	2.75684	0.91581	0.7570	0.9859
160000	160502	687.170	27.500	-0.500	1.12709	2.69484	0.89588	0.7410	0.9624
160500	160464	687.170	27.500	-0.500	1.11489	2.63289	0.87624	0.7250	0.9389
161000	160425	687.170	27.500	-0.500	1.10270	2.57099	0.85689	0.7090	0.9154
161500	160385	687.170	27.500	-0.500	1.09061	2.50914	0.83784	0.6930	0.8919
162000	160344	687.170	27.500	-0.500	1.07862	2.44734	0.81909	0.6770	0.8684
162500	160302	687.170	27.500	-0.500	1.06673	2.38559	0.80064	0.6610	0.8449
163000	160259	687.170	27.500	-0.500	1.05494	2.32389	0.78239	0.6450	0.8214
163500	160215	687.170	27.500	-0.500	1.04325	2.26224	0.76434	0.6290	0.7979
164000	160170	687.170	27.500	-0.500	1.03166	2.20064	0.74649	0.6130	0.7744
164500	160124	687.170	27.500	-0.500	1.02017	2.13909	0.72884	0.5970	0.7509
165000	160077	687.170	27.500	-0.500	1.00878	2.07759	0.71139	0.5810	0.7274
165500	160029	687.170	27.500	-0.500	0.99749	2.01614	0.69414	0.5650	0.7039
166000	159980	687.170	27.500	-0.500	0.98620	1.95474	0.67709	0.5490	0.6804
166500	159929	687.170	27.500	-0.500	0.97501	1.89339	0.66024	0.5330	0.6569
167000	159877	687.170	27.500	-0.500	0.96392	1.83209	0.64359	0.5170	0.6334
167500	159824	687.170	27.500	-0.500	0.95293	1.77084	0.62714	0.5010	0.6099
168000	159770	687.170	27.500	-0.500	0.94204	1.70964	0.61089	0.4850	0.5864
168500	159715	687.170	27.500	-0.500	0.93125	1.64849	0.59484	0.4690	0.5629
169000	159659	687.170	27.500	-0.500	0.92056	1.58739	0.57899	0.4530	0.5394
169500	159602	687.170	27.500	-0.500	0.90997	1.52634	0.56334	0.4370	0.5159
170000	159544	687.170	27.500	-0.500	0.89948	1.46534	0.54789	0.4210	0.4924
170500	159485	687.170	27.500	-0.500	0.88909	1.40439	0.53264	0.4050	0.4689
171000	159425	687.170	27.500	-0.500	0.87880	1.34349	0.51759	0.3890	0.4454
171500	159364	687.170	27.500	-0.500	0.86861	1.28264	0.50274	0.3730	0.4219
172000	159302	687.170	27.500	-0.500	0.85852	1.22184	0.48809	0.3570	0.3984
172500	159239	687.170	27.500	-0.500	0.84853	1.16109	0.47364	0.3410	0.3749
173000	159175	687.170	27.500	-0.500	0.83864	1.10039	0.45939	0.3250	0.3514
173500	159110	687.170	27.500	-0.500	0.82885	1.03974	0.44534	0.3090	0.3279
174000	159044	687.170	27.500	-0.500	0.81916	0.97914	0.43149	0.2930	0.3044
174500	158977	687.170	27.500	-0.500	0.80957	0.91859	0.41784	0.2770	0.2809
175000	158909	687.170	27.500	-0.500	0.80008	0.85809	0.40439	0.2610	0.2574
175500	158840	687.170	27.500	-0.500	0.79069	0.79764	0.39114	0.2450	0.2339
176000	158770	687.170	27.500	-0.500	0.78140	0.73724	0.37809	0.2290	0.2104
176500	158700	687.170	27.500	-0.500	0.77221	0.67689	0.36524	0.2130	0.1869
177000	158629	687.170	27.500	-0.500	0.76312	0.61649	0.35259	0.1970	0.1634
177500	158557	687.170	27.500	-0.500	0.75413	0.55614	0.34014	0.1810	0.1399
178000	158485	687.170	27.500	-0.500	0.74524	0.49584	0.32789	0.1650	0.1164
178500	158412	687.170	27.500	-0.500	0.73645	0.43559	0.31584	0.1490	0.0929
179000	158339	687.170	27.500	-0.500	0.72776	0.37529	0.30399	0.1330	0.0694
179500	158265	687.170	27.500	-0.500	0.71917	0.31504	0.29234	0.1170	0.0459
180000	158190	687.170	27.500	-0.500	0.71068	0.25479	0.28089	0.1010	0.0224
180500	158114	687.170	27.500	-0.500	0.70229	0.19454	0.26964	0.0850	0.0089
181000	158038	687.170	27.500	-0.500	0.69390	0.13429	0.25859	0.0690	0.0054
181500	157962	687.170	27.500	-0.500	0.68551	0.07404	0.24774	0.0530	0.0019
182000	157885	687.170	27.500	-0.500	0.67712	0.01379	0.23709	0.0370	0.0004
182500	157808	687.170	27.500	-0.500	0.66873	0.00000	0.22664	0.0210	0.0000
183000	157731	687.170	27.500	-0.500	0.66034	0.00000	0.21629	0.0050	0.0000
183500	157654	687.170	27.500	-0.500	0.65195	0.00000	0.20604	0.0000	0.0000
184000	157577	687.170	27.500	-0.500	0.64356	0.00000	0.19589	0.0000	0.0000
184500	157500	687.170	27.500	-0.500	0.63517	0.00000	0.18584	0.0000	0.0000
185000	157423	687.170	27.500	-0.500	0.62678	0.00000	0.17589	0.0000	0.0000
185500	157346	687.170	27.500	-0.500	0.61839	0.00000	0.16604	0.0000	0.0000
186000	157269	687.170	27.500	-0.500	0.60990	0.00000	0.15629	0.0000	0.0000
186500	157192	687.170	27.500	-0.500	0.60151	0.00000	0.14664	0.0000	0.0000
187000	157115	687.170	27.500	-0.500	0.59312	0.00000	0.13709	0.0000	0.0000
187500	157038	687.170	27.500	-0.500	0.58473	0.00000	0.12764	0.0000	0.0000
188000	156961	687.170	27.500	-0.500	0.57634	0.00000	0.11829	0.0000	0.0000
188500	156884	687.170	27.500	-0.500	0.56795	0.00000	0.10904	0.0000	0.0000
189000	156807	687.170	27.500	-0.500	0.55956	0.00000	0.09989	0.0000	0.0000
189500	156730	687.170	27.500	-0.500	0.55117	0.00000	0.09074	0.0000	0.0000
190000	156653	687.170	27.500	-0.500	0.54278	0.00000	0.08169	0.0000	0.0000
190500	156576	687.170	27.500	-0.500	0.53439	0.00000	0.07274	0.0000	0.0000
191000	156499	687.170	27.500	-0.500	0.52590	0.00000	0.06389	0.0000	0.0000
191500	156422	687.170	27.500	-0.500	0.51751	0.00000	0.05504	0.0000	0.0000
192000	156345	687.170	27.500	-0.500	0.50912	0.00000	0.04629	0.0000	0.0000
192500	156268	687.170	27.500	-0.500	0.50073	0.00000	0.03754	0.0000	0.0000
193000	156191	687.170	27.500	-0.500	0.49234	0.00000	0.02879	0.0000	0.0000
193500	156114	687.170	27.500	-0.500	0.48395	0.00000	0.02004	0.0000	0.0000
194000	156037	687.170	27.500	-0.500	0.47556	0.00000	0.01129	0.0000	0.0000
194500	155960	687.170	27.500	-0.500	0.46717	0.00000	0.00254	0.0000	0.0000
195000	155883	687.170	27.500	-0.500	0.45878	0.00000	0.00000	0.0000	0.0000

TABLE III — Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	$\rho, \text{lb ft}^{-3}$	$\frac{\rho}{\rho_0}$
199500	191767	665.087	0.217	-16.326	2.75067	8.12331	2.71609	2.3116	1.0225
199500	192256	665.350	0.660	-16.629	2.69605	7.96194	2.66060	2.2800	1.0157
199500	192745	665.700	1.120	-16.934	2.64227	7.80261	2.60771	2.2495	1.0090
199500	193234	666.051	1.577	-17.240	2.58909	7.64377	2.57463	2.2195	1.0023
199500	193723	666.402	2.032	-17.545	2.53577	7.48504	2.54051	2.1895	0.9956
199500	194212	666.753	2.485	-17.850	2.48245	7.32630	2.50630	2.1595	0.9889
199500	194701	667.104	2.938	-18.155	2.42913	7.16756	2.47201	2.1295	0.9822
199500	195190	667.455	3.391	-18.460	2.37581	7.00882	2.43789	2.0995	0.9755
199500	195679	667.806	3.844	-18.765	2.32249	6.85008	2.40377	2.0695	0.9688
199500	196168	668.157	4.297	-19.070	2.26917	6.69134	2.36965	2.0395	0.9621
199500	196657	668.508	4.750	-19.375	2.21585	6.53260	2.33553	2.0095	0.9554
199500	197146	668.859	5.203	-19.680	2.16253	6.37386	2.30141	1.9795	0.9487
199500	197635	669.210	5.656	-19.985	2.10921	6.21512	2.26729	1.9495	0.9420
199500	198124	669.561	6.109	-20.290	2.05589	6.05638	2.23317	1.9195	0.9353
199500	198613	669.912	6.562	-20.595	2.00257	5.89764	2.19905	1.8895	0.9286
199500	199102	670.263	7.015	-20.900	1.94925	5.73890	2.16493	1.8595	0.9219
199500	199591	670.614	7.468	-21.205	1.89583	5.58016	2.13081	1.8295	0.9152
199500	200080	670.965	7.921	-21.510	1.84241	5.42142	2.09669	1.7995	0.9085
199500	200569	671.316	8.374	-21.815	1.78899	5.26268	2.06257	1.7695	0.9018
199500	201058	671.667	8.827	-22.120	1.73557	5.10394	2.02845	1.7395	0.8951
199500	201547	672.018	9.280	-22.425	1.68215	4.94520	2.00000	1.7095	0.8884
199500	202036	672.369	9.733	-22.730	1.62873	4.78646	1.96688	1.6795	0.8817
199500	202525	672.720	10.186	-23.035	1.57531	4.62772	1.93376	1.6495	0.8750
199500	203014	673.071	10.639	-23.340	1.52189	4.46898	1.90064	1.6195	0.8683
199500	203503	673.422	11.092	-23.645	1.46847	4.31024	1.86752	1.5895	0.8616
199500	203992	673.773	11.545	-23.950	1.41505	4.15150	1.83440	1.5595	0.8549
199500	204481	674.124	11.998	-24.255	1.36163	4.00000	1.80128	1.5295	0.8482
199500	204970	674.475	12.451	-24.560	1.30821	3.84846	1.76816	1.4995	0.8415
199500	205459	674.826	12.904	-24.865	1.25479	3.69692	1.73504	1.4695	0.8348
199500	205948	675.177	13.357	-25.170	1.20137	3.54538	1.70192	1.4395	0.8281
199500	206437	675.528	13.810	-25.475	1.14795	3.39384	1.66880	1.4095	0.8214
199500	206926	675.879	14.263	-25.780	1.09453	3.24230	1.63568	1.3795	0.8147
199500	207415	676.230	14.716	-26.085	1.04111	3.09076	1.60256	1.3495	0.8080
199500	207904	676.581	15.169	-26.390	0.98769	2.93922	1.56944	1.3195	0.8013
199500	208393	676.932	15.622	-26.695	0.93427	2.78768	1.53632	1.2895	0.7946
199500	208882	677.283	16.075	-27.000	0.88085	2.63614	1.50320	1.2595	0.7879
199500	209371	677.634	16.528	-27.305	0.82743	2.48460	1.47008	1.2295	0.7812
199500	209860	677.985	16.981	-27.610	0.77401	2.33306	1.43696	1.1995	0.7745
199500	210349	678.336	17.434	-27.915	0.72059	2.18152	1.40384	1.1695	0.7678
199500	210838	678.687	17.887	-28.220	0.66717	2.03000	1.37072	1.1395	0.7611
199500	211327	679.038	18.340	-28.525	0.61375	1.87846	1.33760	1.1095	0.7544
199500	211816	679.389	18.793	-28.830	0.56033	1.72692	1.30448	1.0795	0.7477
199500	212305	679.740	19.246	-29.135	0.50691	1.57538	1.27136	1.0495	0.7410
199500	212794	680.091	19.699	-29.440	0.45349	1.42384	1.23824	1.0195	0.7343
199500	213283	680.442	20.152	-29.745	0.40007	1.27230	1.20512	0.9895	0.7276
199500	213772	680.793	20.605	-30.050	0.34665	1.12076	1.17200	0.9595	0.7209
199500	214261	681.144	21.058	-30.355	0.29323	0.96922	1.13888	0.9295	0.7142
199500	214750	681.495	21.511	-30.660	0.23981	0.81768	1.10696	0.8995	0.7075
199500	215239	681.846	21.964	-30.965	0.18639	0.66614	1.07504	0.8695	0.7008
199500	215728	682.197	22.417	-31.270	0.13297	0.51460	1.04312	0.8395	0.6941
199500	216217	682.548	22.870	-31.575	0.07955	0.36306	1.01120	0.8095	0.6874
199500	216706	682.899	23.323	-31.880	0.02613	0.21152	0.97928	0.7795	0.6807
199500	217195	683.250	23.776	-32.185	0.00000	0.00000	0.94736	0.7495	0.6740
199500	217684	683.601	24.229	-32.490			0.91544	0.7195	0.6673
199500	218173	683.952	24.682	-32.795			0.88352	0.6895	0.6606
199500	218662	684.303	25.135	-33.100			0.85160	0.6595	0.6539
199500	219151	684.654	25.588	-33.405			0.81968	0.6295	0.6472
199500	219640	685.005	26.041	-33.710			0.78776	0.5995	0.6405
199500	220129	685.356	26.494	-34.015			0.75584	0.5695	0.6338
199500	220618	685.707	26.947	-34.320			0.72392	0.5395	0.6271
199500	221107	686.058	27.400	-34.625			0.69200	0.5095	0.6204
199500	221596	686.409	27.853	-34.930			0.66008	0.4795	0.6137
199500	222085	686.760	28.306	-35.235			0.62816	0.4495	0.6070
199500	222574	687.111	28.759	-35.540			0.59624	0.4195	0.6003
199500	223063	687.462	29.212	-35.845			0.56432	0.3895	0.5936
199500	223552	687.813	29.665	-36.150			0.53240	0.3595	0.5869
199500	224041	688.164	30.118	-36.455			0.50048	0.3295	0.5802
199500	224530	688.515	30.571	-36.760			0.46856	0.2995	0.5735
199500	225019	688.866	31.024	-37.065			0.43664	0.2695	0.5668
199500	225508	689.217	31.477	-37.370			0.40472	0.2395	0.5601
199500	225997	689.568	31.930	-37.675			0.37280	0.2095	0.5534
199500	226486	689.919	32.383	-37.980			0.34088	0.1795	0.5467
199500	226975	690.270	32.836	-38.285			0.30896	0.1495	0.5400
199500	227464	690.621	33.289	-38.590			0.27704	0.1195	0.5333
199500	227953	690.972	33.742	-38.895			0.24512	0.0895	0.5266
199500	228442	691.323	34.195	-39.200			0.21320	0.0595	0.5199
199500	228931	691.674	34.648	-39.505			0.18128	0.0295	0.5132
199500	229420	692.025	35.101	-39.810			0.14936	0.0000	0.5065
199500	229909	692.376	35.554	-40.115			0.11744		0.4998
199500	230398	692.727	36.007	-40.420			0.08552		0.4931
199500	230887	693.078	36.460	-40.725			0.05360		0.4864
199500	231376	693.429	36.913	-41.030			0.02168		0.4797
199500	231865	693.780	37.366	-41.335			0.00000		0.4730
199500	232354	694.131	37.819	-41.640					0.4663
199500	232843	694.482	38.272	-41.945					0.4596
199500	233332	694.833	38.725	-42.250					0.4529
199500	233821	695.184	39.178	-42.555					0.4462
199500	234310	695.535	39.631	-42.860					0.4395
199500	234799	695.886	40.084	-43.165					0.4328
199500	235288	696.237	40.537	-43.470					0.4261
199500	235777	696.588	40.990	-43.775					0.4194
199500	236266	696.939	41.443	-44.080					0.4127
199500	236755	697.290	41.896	-44.385					0.4060
199500	237244	697.641	42.349	-44.690					0.3993
199500	237733	697.992	42.802	-44.995					0.3926
199500	238222	698.343	43.255	-45.300					0.3859
199500	238711	698.694	43.708	-45.605					0.3792
199500	239200	699.045	44.161	-45.910					0.3725
199500	239689	699.396	44.614	-46.215					0.3658
199500	240178	699.747	45.067	-46.520					0.3591
199500	240667	700.098	45.520	-46.825					0.3524
199500	241156	700.449	45.973	-47.130					0.3457
199500	241645	700.800	46.426	-47.435					0.3390
199500	242134	701.151	46.879	-47.740					0.3323
199500	242623	701.502	47.332	-48.045					0.3256
199500	243112	701.853	47.785	-48.350					0.3189
199500	243601	702.204	48.238	-48.655					0.3122
199500	244090	702.555	48.691	-48.960					0.3055
199500	244579	702.906	49.144	-49.265					0.2988
199500	245068	703.257	49.597	-49.570					0.2921
199500	245557	703.608	50.050	-49.875					0.2854
199500	246046	703.959	50.503	-50.180					0.2787
199500	246535	704.310	50.956	-50.485					0.2720
199500	247024	704.661	51.409	-50.790					

TABLE IV - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	°C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
190000	190000	467.769	0.000	-13.270	2.64763 - 1	0.79257 - 3	2.90267 - 5	2.4663 - 5	3.2250 - 6
190500	190500	467.230	7.361	-13.377	2.63950	0.53203	2.05100	2.0210	9.1650
191000	190600	466.692	7.822	-13.477	2.63139	0.36462	1.70615	2.3765	5.1070
191500	190750	466.153	8.283	-13.576	2.62327	0.20290	1.36132	2.5320	3.0500
192000	190900	465.615	8.744	-13.675	2.61516	0.04255	1.01700	2.6970	2.0902
192500	191050	465.076	9.205	-13.775	2.60702	7.88500	2.63520	2.2675	2.0300
193000	191200	464.537	9.667	-13.876	2.60100	7.79050	2.63520	2.2021	2.2257
193500	191350	463.998	10.128	-13.975	2.59497	7.57805	2.53293	2.1655	2.0210
194000	191500	463.460	10.590	-14.072	2.59100	7.42997	2.42916	2.1252	2.7700
194500	191700	462.921	11.051	-14.171	2.58600	7.28306	2.42916	2.0050	2.7775
195000	191900	462.383	11.513	-14.271	2.58100	7.13617	2.32602	2.0072	2.4740 - 6
195500	192050	461.844	11.974	-14.370	2.57600	6.98927	2.22300	2.0002	2.0272
196000	192200	461.306	12.435	-14.469	2.57100	6.84237	2.12000	1.9710	2.5700
196500	192350	460.767	12.896	-14.568	2.56600	6.69547	2.01700	1.9410	2.5500
197000	192500	460.228	13.357	-14.667	2.56100	6.54857	1.91400	1.9110	2.5300
197500	192650	459.689	13.818	-14.766	2.55600	6.40167	1.81100	1.8810	2.5100
198000	192800	459.150	14.279	-14.865	2.55100	6.25477	1.70800	1.8510	2.4900
198500	192950	458.611	14.740	-14.964	2.54600	6.10787	1.60500	1.8210	2.4700
199000	193100	458.072	15.201	-15.063	2.54100	5.96097	1.50200	1.7910	2.4500
199500	193250	457.533	15.662	-15.162	2.53600	5.81407	1.40000	1.7610	2.4300
200000	193400	456.994	16.123	-15.261	2.53100	5.66717	1.29700	1.7310	2.4100
200500	193550	456.455	16.584	-15.360	2.52600	5.52027	1.19400	1.7010	2.3900
201000	193700	455.916	17.045	-15.459	2.52100	5.37337	1.09100	1.6710	2.3700
201500	193850	455.377	17.506	-15.558	2.51600	5.22647	1.00000	1.6410	2.3500
202000	194000	454.838	17.967	-15.657	2.51100	5.07957	0.90900	1.6110	2.3300
202500	194150	454.299	18.428	-15.756	2.50600	4.93267	0.81800	1.5810	2.3100
203000	194300	453.760	18.889	-15.855	2.50100	4.78577	0.72700	1.5510	2.2900
203500	194450	453.221	19.350	-15.954	2.49600	4.63887	0.63600	1.5210	2.2700
204000	194600	452.682	19.811	-16.053	2.49100	4.49197	0.54500	1.4910	2.2500
204500	194750	452.143	20.272	-16.152	2.48600	4.34507	0.45400	1.4610	2.2300
205000	194900	451.604	20.733	-16.251	2.48100	4.19817	0.36300	1.4310	2.2100
205500	195050	451.065	21.194	-16.350	2.47600	4.05127	0.27200	1.4010	2.1900
206000	195200	450.526	21.655	-16.449	2.47100	3.90437	0.18100	1.3710	2.1700
206500	195350	449.987	22.116	-16.548	2.46600	3.75747	0.09000	1.3410	2.1500
207000	195500	449.448	22.577	-16.647	2.46100	3.61057	0.00000	1.3110	2.1300
207500	195650	448.909	23.038	-16.746	2.45600	3.46367	0.00000	1.2810	2.1100
208000	195800	448.370	23.499	-16.845	2.45100	3.31677	0.00000	1.2510	2.0900
208500	195950	447.831	23.960	-16.944	2.44600	3.16987	0.00000	1.2210	2.0700
209000	196100	447.292	24.421	-17.043	2.44100	3.02297	0.00000	1.1910	2.0500
209500	196250	446.753	24.882	-17.142	2.43600	2.87607	0.00000	1.1610	2.0300
210000	196400	446.214	25.343	-17.241	2.43100	2.72917	0.00000	1.1310	2.0100
210500	196550	445.675	25.804	-17.340	2.42600	2.58227	0.00000	1.1010	1.9900
211000	196700	445.136	26.265	-17.439	2.42100	2.43537	0.00000	1.0710	1.9700
211500	196850	444.597	26.726	-17.538	2.41600	2.28847	0.00000	1.0410	1.9500
212000	197000	444.058	27.187	-17.637	2.41100	2.14157	0.00000	1.0110	1.9300
212500	197150	443.519	27.648	-17.736	2.40600	2.00000	0.00000	0.9810	1.9100
213000	197300	442.980	28.109	-17.835	2.40100	1.85843	0.00000	0.9510	1.8900
213500	197450	442.441	28.570	-17.934	2.39600	1.71687	0.00000	0.9210	1.8700
214000	197600	441.902	29.031	-18.033	2.39100	1.57530	0.00000	0.8910	1.8500
214500	197750	441.363	29.492	-18.132	2.38600	1.43373	0.00000	0.8610	1.8300
215000	197900	440.824	29.953	-18.231	2.38100	1.29217	0.00000	0.8310	1.8100
215500	198050	440.285	30.414	-18.330	2.37600	1.15060	0.00000	0.8010	1.7900
216000	198200	439.746	30.875	-18.429	2.37100	1.00903	0.00000	0.7710	1.7700
216500	198350	439.207	31.336	-18.528	2.36600	0.86747	0.00000	0.7410	1.7500
217000	198500	438.668	31.797	-18.627	2.36100	0.72590	0.00000	0.7110	1.7300
217500	198650	438.129	32.258	-18.726	2.35600	0.58433	0.00000	0.6810	1.7100
218000	198800	437.590	32.719	-18.825	2.35100	0.44277	0.00000	0.6510	1.6900
218500	198950	437.051	33.180	-18.924	2.34600	0.30120	0.00000	0.6210	1.6700
219000	199100	436.512	33.641	-19.023	2.34100	0.15963	0.00000	0.5910	1.6500
219500	199250	435.973	34.102	-19.122	2.33600	0.01807	0.00000	0.5610	1.6300
220000	199400	435.434	34.563	-19.221	2.33100	0.00000	0.00000	0.5310	1.6100
220500	199550	434.895	35.024	-19.320	2.32600	0.00000	0.00000	0.5010	1.5900
221000	199700	434.356	35.485	-19.419	2.32100	0.00000	0.00000	0.4710	1.5700
221500	199850	433.817	35.946	-19.518	2.31600	0.00000	0.00000	0.4410	1.5500
222000	199900	433.278	36.407	-19.617	2.31100	0.00000	0.00000	0.4110	1.5300
222500	200050	432.739	36.868	-19.716	2.30600	0.00000	0.00000	0.3810	1.5100
223000	200200	432.200	37.329	-19.815	2.30100	0.00000	0.00000	0.3510	1.4900
223500	200350	431.661	37.790	-19.914	2.29600	0.00000	0.00000	0.3210	1.4700
224000	200500	431.122	38.251	-20.013	2.29100	0.00000	0.00000	0.2910	1.4500
224500	200650	430.583	38.712	-20.112	2.28600	0.00000	0.00000	0.2610	1.4300
225000	200800	430.044	39.173	-20.211	2.28100	0.00000	0.00000	0.2310	1.4100
225500	200950	429.505	39.634	-20.310	2.27600	0.00000	0.00000	0.2010	1.3900
226000	201100	428.966	40.095	-20.409	2.27100	0.00000	0.00000	0.1710	1.3700
226500	201250	428.427	40.556	-20.508	2.26600	0.00000	0.00000	0.1410	1.3500
227000	201400	427.888	41.017	-20.607	2.26100	0.00000	0.00000	0.1110	1.3300
227500	201550	427.349	41.478	-20.706	2.25600	0.00000	0.00000	0.0810	1.3100
228000	201700	426.810	41.939	-20.805	2.25100	0.00000	0.00000	0.0510	1.2900
228500	201850	426.271	42.400	-20.904	2.24600	0.00000	0.00000	0.0210	1.2700
229000	202000	425.732	42.861	-21.003	2.24100	0.00000	0.00000	0.0000	1.2500
229500	202150	425.193	43.322	-21.102	2.23600	0.00000	0.00000	0.0000	1.2300

TABLE IX — Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
250000	252500	309.221	-70.040	-66.016	0.01095 - 2	1.42315 - 3	0.75615 - 5	0.0471 - 6	0.3382 - 5
250500	253070	309.126	-71.504	-67.526	0.70454	1.30925	0.66302	0.7650	0.2047
251000	253500	307.637	-73.643	-69.139	0.50215	1.35406	0.53210	0.6448	0.0736
251500	254000	305.927	-75.761	-70.761	0.40212	1.32337	0.42552	0.5644	0.0630
252000	254410	304.032	-77.838	-72.354	0.37443	1.26177	0.31725	0.4698	0.0187
252500	254822	301.775	-79.909	-73.909	0.26908	1.24065	0.21323	0.3550	0.0046
253000	255233	300.658	-81.632	-68.676	0.16492	1.20019	0.11164	0.2620	0.0011
253500	255644	298.500	-83.700	-69.000	0.06000	1.20039	0.01102	0.1707	0.0001
254000	256054	296.443	-85.799	-61.792	0.00221	1.17122	0.01434	0.0011	0.0001
254500	256467	294.386	-87.900	-62.002	0.00054	1.14246	0.01090	0.0002	0.0001
255000	256879	292.329	-90.022	-63.012	0.77500 - 2	1.11676 - 5	0.72569 - 5	0.9009 - 6	0.1888 - 5
255500	257290	290.272	-92.179	-62.822	0.68289	1.08764	0.63413	0.8222	0.0900
256000	257702	288.215	-94.360	-64.231	0.59100	1.06071	0.54301	0.7392	0.0894
256500	258115	286.157	-96.571	-66.061	0.50000	1.03537	0.45763	0.6577	0.7029
257000	258527	284.099	-98.811	-67.440	0.41000	1.01060	0.37777	0.5777	0.6103
257500	258940	282.042	-101.080	-68.800	0.32000	0.98777 - 4	0.29977 - 4	0.4904	0.5758
258000	259352	280.000	-103.300	-69.770	0.23000	0.96555	0.22079	0.4024	0.4333
258500	259765	277.957	-105.567	-70.783	0.14000	0.94385	0.14082	0.3160	0.3765
259000	260178	275.914	-107.870	-71.800	0.05000	0.92260	0.06062	0.2299	0.2797
259500	260591	273.871	-110.207	-72.840	0.01154	0.90184	0.00900	0.07315	0.1808
260000	261004	271.828	-112.594	-73.888	0.00377 - 2	0.88154 - 4	0.00730 - 5	0.1291 - 6	0.0917 - 5
260500	261417	269.785	-115.041	-74.943	0.00170	0.86160	0.00360	0.0270	0.0004
261000	261830	267.742	-117.549	-76.000	0.70920	0.84215	0.23675	0.75381	0.9908
261500	262243	265.699	-119.800	-77.057	0.61000	0.82370	0.20770	0.66794	0.8231
262000	262656	263.656	-122.080	-78.114	0.51000	0.80525	0.17864	0.5829	0.7371
262500	263069	261.613	-124.391	-79.171	0.41000	0.78680	0.14958	0.4979	0.6527
263000	263482	259.570	-126.702	-80.228	0.31000	0.76835	0.12052	0.4129	0.5683
263500	263895	257.527	-129.013	-81.285	0.21000	0.74990	0.09146	0.3279	0.4839
264000	264308	255.484	-131.324	-82.342	0.11000	0.73145	0.06240	0.2429	0.3995
264500	264721	253.441	-133.635	-83.399	0.01000	0.71300	0.03334	0.1579	0.3151
265000	265134	251.398	-135.946	-84.456	0.00377 - 2	0.69455 - 4	0.00730 - 5	0.0731 - 6	0.2302 - 5
265500	265547	249.355	-138.257	-85.513	0.00170	0.67610	0.00360	0.0270	0.0004
266000	265960	247.312	-140.568	-86.570	0.00054	0.65765	0.00170	0.0090	0.0001
266500	266373	245.269	-142.879	-87.627	0.00017	0.63920	0.00085	0.0036	0.0001
267000	266786	243.226	-145.190	-88.684	0.00005	0.62075	0.00042	0.0018	0.0001
267500	267199	241.183	-147.501	-89.741	0.00001	0.60230	0.00021	0.0009	0.0001
268000	267612	239.140	-149.812	-90.798	0.00000	0.58385	0.00010	0.0004	0.0001
268500	268025	237.097	-152.123	-91.855	0.00000	0.56540	0.00005	0.0002	0.0001
269000	268438	235.054	-154.434	-92.912	0.00000	0.54695	0.00002	0.0001	0.0001
269500	268851	233.011	-156.745	-93.969	0.00000	0.52850	0.00001	0.0000	0.0001
270000	269264	230.968	-159.056	-95.026	0.00000	0.51005	0.00000	0.0000	0.0001
270500	269677	228.925	-161.367	-96.083	0.00000	0.49160	0.00000	0.0000	0.0001
271000	270090	226.882	-163.678	-97.140	0.00000	0.47315	0.00000	0.0000	0.0001
271500	270503	224.839	-165.989	-98.197	0.00000	0.45470	0.00000	0.0000	0.0001
272000	270916	222.796	-168.300	-99.254	0.00000	0.43625	0.00000	0.0000	0.0001
272500	271329	220.753	-170.611	-100.311	0.00000	0.41780	0.00000	0.0000	0.0001
273000	271742	218.710	-172.922	-101.368	0.00000	0.39935	0.00000	0.0000	0.0001
273500	272155	216.667	-175.233	-102.425	0.00000	0.38090	0.00000	0.0000	0.0001
274000	272568	214.624	-177.544	-103.482	0.00000	0.36245	0.00000	0.0000	0.0001
274500	272981	212.581	-179.855	-104.539	0.00000	0.34400	0.00000	0.0000	0.0001
275000	273394	210.538	-182.166	-105.596	0.00000	0.32555	0.00000	0.0000	0.0001
275500	273807	208.495	-184.477	-106.653	0.00000	0.30710	0.00000	0.0000	0.0001
276000	274220	206.452	-186.788	-107.710	0.00000	0.28865	0.00000	0.0000	0.0001
276500	274633	204.409	-189.099	-108.767	0.00000	0.27020	0.00000	0.0000	0.0001
277000	275046	202.366	-191.410	-109.824	0.00000	0.25175	0.00000	0.0000	0.0001
277500	275459	200.323	-193.721	-110.881	0.00000	0.23330	0.00000	0.0000	0.0001
278000	275872	198.280	-196.032	-111.938	0.00000	0.21485	0.00000	0.0000	0.0001
278500	276285	196.237	-198.343	-112.995	0.00000	0.19640	0.00000	0.0000	0.0001
279000	276698	194.194	-200.654	-114.052	0.00000	0.17795	0.00000	0.0000	0.0001
279500	277111	192.151	-202.965	-115.109	0.00000	0.15950	0.00000	0.0000	0.0001
280000	277524	190.108	-205.276	-116.166	0.00000	0.14105	0.00000	0.0000	0.0001
280500	277937	188.065	-207.587	-117.223	0.00000	0.12260	0.00000	0.0000	0.0001
281000	278350	186.022	-209.898	-118.280	0.00000	0.10415	0.00000	0.0000	0.0001
281500	278763	183.979	-212.209	-119.337	0.00000	0.08570	0.00000	0.0000	0.0001
282000	279176	181.936	-214.520	-120.394	0.00000	0.06725	0.00000	0.0000	0.0001
282500	279589	179.893	-216.831	-121.451	0.00000	0.04880	0.00000	0.0000	0.0001
283000	279602	177.850	-219.142	-122.508	0.00000	0.03035	0.00000	0.0000	0.0001
283500	280015	175.807	-221.453	-123.565	0.00000	0.01190	0.00000	0.0000	0.0001
284000	280428	173.764	-223.764	-124.622	0.00000	0.00345	0.00000	0.0000	0.0001
284500	280841	171.721	-226.075	-125.679	0.00000	0.00090	0.00000	0.0000	0.0001
285000	281254	169.678	-228.386	-126.736	0.00000	0.00025	0.00000	0.0000	0.0001
285500	281667	167.635	-230.697	-127.793	0.00000	0.00006	0.00000	0.0000	0.0001
286000	282080	165.592	-233.008	-128.850	0.00000	0.00001	0.00000	0.0000	0.0001
286500	282493	163.549	-235.319	-129.907	0.00000	0.00000	0.00000	0.0000	0.0001
287000	282906	161.506	-237.630	-130.964	0.00000	0.00000	0.00000	0.0000	0.0001
287500	283319	159.463	-239.941	-132.021	0.00000	0.00000	0.00000	0.0000	0.0001
288000	283732	157.420	-242.252	-133.078	0.00000	0.00000	0.00000	0.0000	0.0001
288500	284145	155.377	-244.563	-134.135	0.00000	0.00000	0.00000	0.0000	0.0001
289000	284558	153.334	-246.874	-135.192	0.00000	0.00000	0.00000	0.0000	0.0001
289500	284971	151.291	-249.185	-136.249	0.00000	0.00000	0.00000	0.0000	0.0001
290000	285384	149.248	-251.496	-137.306	0.00000	0.00000	0.00000	0.0000	0.0001
290500	285797	147.205	-253.807	-138.363	0.00000	0.00000	0.00000	0.0000	0.0001
291000	286210	145.162	-256.118	-139.420	0.00000	0.00000	0.00000	0.0000	0.0001
291500	286623	143.119	-258.429	-140.477	0.00000	0.00000	0.00000	0.0000	0.0001
292000	287036	141.076	-260.740	-141.534	0.00000	0.00000	0.00000	0.0000	0.0001
292500	287449	139.033	-263.051	-142.591	0.00000	0.00000	0.00000	0.0000	0.0001
293000	287862	136.990	-265.362	-143.648	0.00000	0.00000	0.00000	0.0000	0.0001
293500	288275	134.947	-267.673	-144.705	0.00000	0.00000	0.00000	0.0000	0.0001
294000	288688	132.904	-269.984	-145.762	0.00000	0.00000	0.00000	0.0000	0.0001
294500	289101	130.861	-272.295	-146.819	0.00000	0.00000	0.00000	0.0000	0.0001
295000	289514	128.818	-274.606	-147.876	0.00000	0.00000	0.00000	0.0000	0.0001
295500	289927	126.775	-276.917	-148.933	0.00000	0.00000	0.00000	0.0000	0.0001
296000	290340	124.732	-279.228	-150.000	0.00000	0.00000	0.00000	0.0000	0.0001
296500	290753	122.689	-281.539	-151.057	0.00000	0.00000	0.00000	0.0000	0.0001
297000	291166	120.646	-283.850	-152.114	0.00000	0.00000	0.00000	0.0000	0.0001
297500	291579	118.603	-286.161	-153.171	0.00000	0.00000	0.00000	0.0000	0.0001
298000	291992	116.560	-288.472	-154.228	0.00000	0.00000	0.00000	0.0000	0.0001
298500	292405	114.517	-290.783	-155.285	0.00000	0.00000	0.00000	0.0000	0.0001
299000	292818	112.474	-293.094	-156.342	0.00000	0.00000	0.00000	0.0000	0.0001
299500	293231	110.431	-295.405						

TABLE IX - Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
230000	227491	394.728	-64.942	-53.857	5.43373 - 2	1.40050 - 3	5.56200 - 5	5.1000 - 4	7.0465 - 5
230500	227900	393.454	-66.014	-53.453	5.40882	1.38767	5.23937	5.2791	6.9059
231000	228309	392.501	-67.009	-53.049	5.37844	1.37554	5.11662	5.1717	6.7624
231500	228718	391.500	-68.162	-53.000	5.34850	1.36414	5.00032	5.0460	6.6246
232000	229127	390.434	-69.234	-54.062	5.31911	1.35349	4.88845	4.9222	6.4927
232500	229536	389.341	-70.349	-54.098	5.29017	1.34353	4.77998	4.8403	6.3554
233000	229945	388.248	-71.502	-57.034	5.26155	1.33427	4.67480	4.7461	6.2245
233500	230354	387.115	-72.655	-58.091	5.23323	1.32570	4.55095	4.6618	6.0959
234000	230763	386.042	-73.820	-58.627	5.20524	1.31781	4.44435	4.5653	5.9697
234500	231172	385.049	-75.001	-59.223	5.17762	1.31057	4.35047	4.4705	5.8437
235000	231581	384.046	-76.189	-60.019	5.15031	1.30399	4.25976	4.3774	5.7248
235500	231990	383.033	-77.387	-60.815	5.12321	1.29707	4.17264	4.2860	5.6045
236000	232399	382.000	-78.650	-61.611	5.09634	1.29082	4.08972	4.1963	5.4872
236500	232808	380.947	-79.923	-62.407	5.06960	1.28423	3.99980	4.1082	5.3730
237000	233217	379.874	-81.206	-63.203	5.04307	1.27730	3.91490	4.0217	5.2587
237500	233626	378.781	-82.489	-64.000	5.01674	1.27007	3.82499	3.9369	5.1479
238000	234035	377.668	-83.772	-64.796	4.99061	1.26254	3.73908	3.8535	5.0389
238500	234444	376.535	-85.055	-65.593	4.96468	1.25471	3.64717	3.7717	4.9320
239000	234853	375.382	-86.338	-66.389	4.93895	1.24658	3.54926	3.6914	4.8270
239500	235262	374.309	-87.621	-67.186	4.91342	1.23815	3.44535	3.6126	4.7240
240000	235671	373.216	-88.904	-67.983	4.88809	1.22942	3.33544	3.5353	4.6220
240500	236080	372.103	-90.187	-68.780	4.86296	1.22039	3.21953	3.4594	4.5217
241000	236489	371.000	-91.470	-69.577	4.83803	1.21106	3.10762	3.3850	4.4243
241500	236898	369.887	-92.753	-70.374	4.81330	1.20143	3.00071	3.3119	4.3290
242000	237307	368.754	-94.036	-71.171	4.78877	1.19150	2.89880	3.2402	4.2357
242500	237716	367.601	-95.319	-71.968	4.76444	1.18127	2.80189	3.1699	4.1451
243000	238125	366.428	-96.602	-72.765	4.74031	1.17074	2.70898	3.1009	4.0568
243500	238534	365.235	-97.885	-73.562	4.71638	1.16001	2.62007	3.0332	3.9703
244000	238943	364.022	-99.168	-74.359	4.69265	1.14908	2.53516	2.9668	3.8859
244500	239352	362.789	-100.451	-75.156	4.66912	1.13795	2.45425	2.9017	3.8033
245000	239761	361.536	-101.734	-75.953	4.64579	1.12662	2.37734	2.8370	3.7220
245500	240170	360.263	-103.017	-76.750	4.62266	1.11509	2.30443	2.7737	3.6420
246000	240579	359.000	-104.300	-77.547	4.59973	1.10336	2.23552	2.7114	3.5630
246500	240988	357.717	-105.583	-78.344	4.57700	1.09143	2.17061	2.6501	3.4850
247000	241397	356.404	-106.866	-79.141	4.55447	1.07930	2.10970	2.5882	3.4080
247500	241806	355.071	-108.149	-80.000	4.53214	1.06697	2.05279	2.5283	3.3320
248000	242215	353.718	-109.432	-80.807	4.51001	1.05444	2.00088	2.4704	3.2570
248500	242624	352.345	-110.715	-81.614	4.48808	1.04171	1.95297	2.4145	3.1820
249000	243033	350.952	-112.000	-82.421	4.46635	1.02878	1.90906	2.3606	3.1080
249500	243442	349.539	-113.283	-83.228	4.44482	1.01565	1.86915	2.3087	3.0350
250000	243851	348.106	-114.566	-84.035	4.42349	1.00232	1.83324	2.2588	2.9630
250500	244260	346.653	-115.849	-84.842	4.40236	0.98879	1.79933	2.2109	2.8920
251000	244669	345.180	-117.132	-85.649	4.38143	0.97506	1.76742	2.1650	2.8220
251500	245078	343.687	-118.415	-86.456	4.36060	0.96113	1.73751	2.1211	2.7530
252000	245487	342.174	-119.698	-87.263	4.34007	0.94700	1.70960	2.0792	2.6850
252500	245896	340.641	-120.981	-88.070	4.31974	0.93267	1.68369	2.0393	2.6180
253000	246305	339.088	-122.264	-88.877	4.29961	0.91814	1.66078	2.0014	2.5520
253500	246714	337.515	-123.547	-89.684	4.27968	0.90341	1.63987	1.9655	2.4870
254000	247123	335.922	-124.830	-90.491	4.25995	0.88848	1.62096	1.9316	2.4230
254500	247532	334.309	-126.113	-91.298	4.24042	0.87335	1.60305	1.8997	2.3600
255000	247941	332.676	-127.396	-92.105	4.22109	0.85802	1.58714	1.8698	2.2980
255500	248350	331.023	-128.679	-92.912	4.20196	0.84249	1.57223	1.8419	2.2370
256000	248759	329.350	-129.962	-93.719	4.18303	0.82676	1.55832	1.8150	2.1770
256500	249168	327.657	-131.245	-94.526	4.16430	0.81083	1.54541	1.7891	2.1180
257000	249577	325.944	-132.528	-95.333	4.14577	0.79470	1.53350	1.7642	2.0600
257500	250000	324.211	-133.811	-96.140	4.12744	0.77837	1.52259	1.7403	2.0030
258000	250419	322.458	-135.094	-96.947	4.10931	0.76184	1.51268	1.7174	1.9470
258500	250838	320.685	-136.377	-97.754	4.09138	0.74511	1.50377	1.6955	1.8920
259000	251257	318.892	-137.660	-98.561	4.07365	0.72818	1.49586	1.6746	1.8380
259500	251676	317.079	-138.943	-99.368	4.05612	0.71105	1.48895	1.6547	1.7850
260000	252095	315.246	-140.226	-100.175	4.03879	0.69372	1.48304	1.6358	1.7320
260500	252514	313.393	-141.509	-100.982	4.02166	0.67619	1.47813	1.6179	1.6800
261000	252933	311.520	-142.792	-101.789	4.00473	0.65846	1.47422	1.6010	1.6280
261500	253352	309.627	-144.075	-102.596	3.98800	0.64053	1.47131	1.5851	1.5770
262000	253771	307.714	-145.358	-103.403	3.97147	0.62240	1.46940	1.5692	1.5270
262500	254190	305.781	-146.641	-104.210	3.95514	0.60407	1.46849	1.5543	1.4780
263000	254609	303.828	-147.924	-105.017	3.93901	0.58554	1.46858	1.5404	1.4300
263500	255028	301.855	-149.207	-105.824	3.92308	0.56681	1.46967	1.5275	1.3830
264000	255447	299.862	-150.490	-106.631	3.90735	0.54788	1.47176	1.5156	1.3370
264500	255866	297.849	-151.773	-107.438	3.89182	0.52875	1.47485	1.5047	1.2920
265000	256285	295.816	-153.056	-108.245	3.87649	0.50942	1.47894	1.4948	1.2480
265500	256704	293.763	-154.339	-109.052	3.86136	0.48989	1.48403	1.4859	1.2050
266000	257123	291.690	-155.622	-109.859	3.84643	0.47016	1.48912	1.4770	1.1630
266500	257542	289.597	-156.905	-110.666	3.83170	0.45023	1.49421	1.4691	1.1220
267000	257961	287.484	-158.188	-111.473	3.81717	0.43010	1.49930	1.4622	1.0820
267500	258380	285.351	-159.471	-112.280	3.80284	0.40977	1.50439	1.4563	1.0430
268000	258799	283.198	-160.754	-113.087	3.78871	0.38924	1.50948	1.4514	1.0050
268500	259218	281.025	-162.037	-113.894	3.77478	0.36851	1.51457	1.4475	0.9680
269000	259637	278.832	-163.320	-114.701	3.76105	0.34758	1.51966	1.4446	0.9320
269500	260056	276.619	-164.603	-115.508	3.74752	0.32645	1.52475	1.4427	0.8970

TABLE IX.—Concluded
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
H, ft	Z, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
270000	273342	325.17	-134.50	-92.50	5.5638 - 3	1.6470 - 4	5.4910 - 6	4.498 - 7	6.759 - 6
275000	276055	325.17	-134.50	-92.50	5.4257	1.5963	5.3050	4.400	6.510
276000	276348	325.17	-134.50	-92.50	5.2521	1.5510	5.1034	4.323	6.260
276500	276602	325.17	-134.50	-92.50	5.1029	1.5069	5.0362	4.243	6.033
277000	276855	325.17	-134.50	-92.50	4.9579	1.4641	4.8931	4.169	5.805
277500	277108	325.17	-134.50	-92.50	4.8171	1.4225	4.7541	4.100	5.583
278000	277362	325.17	-134.50	-92.50	4.6803	1.3821	4.6190	4.034	5.368
278500	277615	325.17	-134.50	-92.50	4.5475	1.3428	4.4878	3.970	5.158
279000	277868	325.17	-134.50	-92.50	4.4181	1.3047	4.3603	3.910	4.955
279500	278122	325.17	-134.50	-92.50	4.2922	1.2676	4.2366	3.854	4.757
279600	278675	325.17	-134.50	-92.50	4.1704 - 3	1.2316 - 3	4.1181 - 6	3.821 - 7	4.565 - 6
279700	279107	325.17	-134.50	-92.50	4.0521	1.1966	3.9992	4.878	4.379
279800	279562	325.17	-134.50	-92.50	3.9370	1.1626	3.8855	4.790	4.190
279900	280016	325.17	-134.50	-92.50	3.8253	1.1296	3.7732	4.695	4.022
279950	280479	325.17	-134.50	-92.50	3.7165	1.0975	3.6779	4.604	3.851
279980	280943	325.17	-134.50	-92.50	3.6109	1.0663	3.5837	4.517	3.684
279990	281406	325.17	-134.50	-92.50	3.5083	1.0360	3.4925	4.434	3.523
279995	281870	325.17	-134.50	-92.50	3.4087	1.0066	3.4041	4.354	3.366
279998	282334	325.17	-134.50	-92.50	3.3118	0.9779	3.3185	4.277	3.214
279999	282797	325.17	-134.50	-92.50	3.2177	0.9500	3.2357	4.204	3.065
280000	283261	325.17	-134.50	-92.50	3.1263 - 3	0.92320 - 5	3.0854 - 6	3.764 - 7	4.922 - 6
280500	286325	325.17	-134.50	-92.50	3.0375	0.8969	2.9978	3.657	4.782
281000	289390	325.17	-134.50	-92.50	2.9517	0.8716	2.9126	3.553	4.646
281500	292452	325.17	-134.50	-92.50	2.8676	0.8476	2.8299	3.452	4.514
282000	295514	325.17	-134.50	-92.50	2.7859	0.8248	2.7695	3.354	4.386
282500	298576	325.17	-134.50	-92.50	2.7060	0.8031	2.6714	3.259	4.261
283000	301638	325.17	-134.50	-92.50	2.6289	0.7825	2.5955	3.166	4.140
283500	304699	325.17	-134.50	-92.50	2.5532	0.7634	2.5217	3.076	4.022
284000	307761	325.17	-134.50	-92.50	2.4800	0.7450	2.4501	2.989	3.908
284500	310823	325.17	-134.50	-92.50	2.4100	0.7272	2.3805	2.904	3.797
285000	313885	325.17	-134.50	-92.50	2.3435 - 3	0.7100 - 5	2.3129 - 6	2.821 - 7	3.689 - 6
285500	316947	325.17	-134.50	-92.50	2.2799	0.6936	2.2472	2.741	3.583
286000	320009	325.17	-134.50	-92.50	2.2192	0.6780	2.1833	2.663	3.483
286500	323071	325.17	-134.50	-92.50	2.1614	0.6632	2.1213	2.588	3.386
287000	326133	325.17	-134.50	-92.50	2.1065	0.6490	2.0610	2.514	3.297
287500	329195	325.17	-134.50	-92.50	2.0540	0.6354	2.0025	2.443	3.194
288000	332257	325.17	-134.50	-92.50	2.0039	0.6224	1.9456	2.373	3.103
288500	335319	325.17	-134.50	-92.50	1.9561	0.6100	1.8903	2.304	3.015
289000	338381	325.17	-134.50	-92.50	1.9104	0.5982	1.8364	2.240	2.930
289500	341443	325.17	-134.50	-92.50	1.8667	0.5870	1.7844	2.177	2.846
290000	344505	325.17	-134.50	-92.50	1.7367 - 3	0.51876 - 5	1.7337 - 6	2.115 - 7	2.765 - 6
290500	347567	325.17	-134.50	-92.50	1.7068	0.5082	1.6845	2.051	2.687
291000	350629	325.17	-134.50	-92.50	1.6583	0.4970	1.6366	1.994	2.611
291500	353691	325.17	-134.50	-92.50	1.6112	0.4863	1.5903	1.934	2.532
292000	356753	325.17	-134.50	-92.50	1.5656	0.4760	1.5451	1.876	2.454
292500	359815	325.17	-134.50	-92.50	1.5214	0.4660	1.5015	1.819	2.378
293000	362877	325.17	-134.50	-92.50	1.4785	0.4563	1.4592	1.763	2.305
293500	365939	325.17	-134.50	-92.50	1.4369	0.4470	1.4182	1.709	2.235
294000	368999	325.17	-134.50	-92.50	1.3967	0.4380	1.3784	1.657	2.167
294500	372059	325.17	-134.50	-92.50	1.3576	0.4293	1.3398	1.606	2.101
295000	375119	325.17	-134.50	-92.50	1.3197 - 3	0.4209 - 5	1.3025 - 6	1.558 - 7	2.037 - 6
295500	378179	325.17	-134.50	-92.50	1.2830	0.4128	1.2662	1.510	1.975
296000	381239	325.17	-134.50	-92.50	1.2476	0.4050	1.2311	1.465	1.915
296500	384299	325.17	-134.50	-92.50	1.2132	0.3974	1.1970	1.421	1.858
297000	387359	325.17	-134.50	-92.50	1.1799	0.3900	1.1639	1.378	1.802
297500	390419	325.17	-134.50	-92.50	1.1469	0.3827	1.1319	1.337	1.748
298000	393479	325.17	-134.50	-92.50	1.1156	0.3757	1.1008	1.297	1.695
298500	396539	325.17	-134.50	-92.50	1.0848	0.3689	1.0706	1.258	1.645
299000	399599	325.17	-134.50	-92.50	1.0551	0.3623	1.0413	1.220	1.596
299500	402659	325.17	-134.50	-92.50	1.0264	0.3559	1.0129	1.184	1.548
300000	405719	325.17	-134.50	-92.50	0.9983 - 3	0.3496 - 5	0.9857 - 6	1.149 - 7	1.503 - 6

TABLE IX — Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
270000	266549	325.17	-134.50	-92.50	6.7884 - 3	2.0046 - 4	6.6996 - 6	6.172 - 7	1.649 - 5
270300	267034	325.17	-134.50	-92.50	6.6004	1.9491	6.5141	7.944	1.639
271000	267523	325.17	-134.50	-92.50	6.6176	1.8951	6.3337	7.724	1.610
271500	268010	325.17	-134.50	-92.50	6.2399	1.8436	6.1503	7.512	1.583
272000	268498	325.17	-134.50	-92.50	6.0671	1.7916	5.9677	7.304	1.551
272500	268985	325.17	-134.50	-92.50	5.8996	1.7400	5.8219	7.102	1.520
273000	269472	325.17	-134.50	-92.50	5.7357	1.6897	5.6687	6.905	1.489
273500	269959	325.17	-134.50	-92.50	5.5769	1.6409	5.5039	6.716	1.459
274000	270446	325.17	-134.50	-92.50	5.4225	1.6013	5.3516	6.526	1.430
274500	270933	325.17	-134.50	-92.50	5.2729	1.5599	5.2034	6.347	1.400
275000	271420	325.17	-134.50	-92.50	5.1264 - 3	1.5190 - 4	5.0593 - 6	6.171 - 7	1.370 - 5
275500	271908	325.17	-134.50	-92.50	4.9804	1.4719	4.9193	6.001	1.340
276000	272395	325.17	-134.50	-92.50	4.8463	1.4312	4.7831	5.839	1.310
276500	272882	325.17	-134.50	-92.50	4.7123	1.3913	4.6507	5.673	1.280
277000	273369	325.17	-134.50	-92.50	4.5819	1.3530	4.5219	5.516	1.250
277500	273856	325.17	-134.50	-92.50	4.4550	1.3164	4.3960	5.363	1.220
278000	274342	325.17	-134.50	-92.50	4.3317	1.2792	4.2751	5.215	1.190
278500	274829	325.17	-134.50	-92.50	4.2110	1.2438	4.1560	5.071	1.160
279000	275316	325.17	-134.50	-92.50	4.0933	1.2093	4.0417	4.930	1.130
279500	275803	325.17	-134.50	-92.50	3.9820	1.1759	3.9299	4.796	1.100
280000	276290	325.17	-134.50	-92.50	3.8716 - 3	1.1433 - 4	3.8211 - 6	4.661 - 7	1.070 - 5
280500	276777	325.17	-134.50	-92.50	3.7644	1.1117	3.7154	4.532	1.040
281000	277264	325.17	-134.50	-92.50	3.6605	1.0809	3.6126	4.407	1.010
281500	277750	325.17	-134.50	-92.50	3.5592	1.0510	3.5124	4.285	0.980
282000	278237	325.17	-134.50	-92.50	3.4607	1.0219	3.4154	4.166	0.950
282500	278724	325.17	-134.50	-92.50	3.3650	9.9367 - 5	3.3210	4.051	0.920
283000	279211	325.17	-134.50	-92.50	3.2719	9.8618	3.2291	3.939	0.890
283500	279697	325.17	-134.50	-92.50	3.1816	9.7865	3.1390	3.830	0.860
284000	280184	325.17	-134.50	-92.50	3.0934	9.7137	3.0529	3.726	0.830
284500	280671	325.17	-134.50	-92.50	3.0078	9.6420	2.9685	3.621	0.800
285000	281157	325.17	-134.50	-92.50	2.9244 - 3	9.5743 - 4	2.8863 - 6	3.521 - 7	0.770 - 5
285500	281644	325.17	-134.50	-92.50	2.8437	9.5074	2.8045	3.423	0.740
286000	282130	325.17	-134.50	-92.50	2.7651	9.4432	2.7289	3.329	0.710
286500	282617	325.17	-134.50	-92.50	2.6884	9.3814	2.6554	3.237	0.680
287000	283103	325.17	-134.50	-92.50	2.6142	9.3219	2.5860	3.147	0.650
287500	283590	325.17	-134.50	-92.50	2.5419	9.2643	2.5207	3.060	0.620
288000	284076	325.17	-134.50	-92.50	2.4716	9.2088	2.4593	2.976	0.590
288500	284563	325.17	-134.50	-92.50	2.4033	9.1550	2.3719	2.893	0.560
289000	285049	325.17	-134.50	-92.50	2.3369	9.1027	2.3063	2.813	0.530
289500	285534	325.17	-134.50	-92.50	2.2722	9.0519	2.2425	2.735	0.500
290000	286022	325.17	-134.50	-92.50	2.2094 - 3	9.0024 - 4	2.1805 - 6	2.660 - 7	0.470 - 5
290500	286509	325.17	-134.50	-92.50	2.1483	8.9541	2.1203	2.586	0.440
291000	286995	325.17	-134.50	-92.50	2.0890	8.9067	2.0616	2.515	0.410
291500	287481	325.17	-134.50	-92.50	2.0312	8.8612	2.0046	2.445	0.380
292000	287967	325.17	-134.50	-92.50	1.9751	8.8174	1.9492	2.378	0.350
292500	288454	325.17	-134.50	-92.50	1.9205	8.7752	1.8954	2.312	0.320
293000	288940	325.17	-134.50	-92.50	1.8674	8.7346	1.8430	2.248	0.290
293500	289426	325.17	-134.50	-92.50	1.8156	8.6954	1.7920	2.186	0.260
294000	289912	325.17	-134.50	-92.50	1.7654	8.6577	1.7425	2.126	0.230
294500	290399	325.17	-134.50	-92.50	1.7168	8.6214	1.6948	2.067	0.200
295000	290885	325.17	-134.50	-92.50	1.6694 - 3	8.5864 - 4	1.6475 - 6	2.010 - 7	0.170 - 5
295500	291371	325.17	-134.50	-92.50	1.6232	8.5524	1.6020	1.952	0.140
296000	291857	325.17	-134.50	-92.50	1.5785	8.5193	1.5579	1.895	0.110
296500	292343	325.17	-134.50	-92.50	1.5351	8.4871	1.5150	1.837	0.080
297000	292829	325.17	-134.50	-92.50	1.4930	8.4558	1.4735	1.782	0.050
297500	293315	325.17	-134.50	-92.50	1.4522	8.4254	1.4332	1.729	0.020
298000	293801	325.17	-134.50	-92.50	1.4125	8.3959	1.3941	1.677	0.000
298500	294287	325.17	-134.50	-92.50	1.3741	8.3674	1.3561	1.626	0.000
299000	294773	325.17	-134.50	-92.50	1.3368	8.3400	1.3193	1.576	0.000
299500	295259	325.17	-134.50	-92.50	1.3006	8.3136	1.2835	1.528	0.000
300000	295745	325.17	-134.50	-92.50	1.2654 - 3	8.2884 - 4	1.2499 - 6	1.484 - 7	0.000 - 5

TABLE IX - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
300000	295765	332.00	-126.77	-58.20	1.2652	3.7368	1.2689	1.488	1.946
301000	296717	330.56	-125.13	-57.29	1.1982	3.5383	1.3383	1.482	1.933
302000	297669	329.10	-123.49	-56.39	1.1369	3.3513	1.4120	1.475	1.920
303000	298620	327.61	-121.84	-55.48	1.0752	3.1750	1.4861	1.468	1.907
304000	299572	326.11	-120.23	-54.57	1.0139	3.0089	1.5609	1.461	1.894
305000	300523	324.60	-118.60	-53.67	0.9530	2.8521	1.6352	1.454	1.881
306000	301474	323.10	-116.97	-52.74	0.8917	2.7045	1.7097	1.447	1.868
307000	302425	321.59	-115.34	-51.84	0.8302	2.5647	1.7844	1.440	1.855
308000	303376	320.09	-113.71	-50.95	0.7682	2.4330	1.8591	1.433	1.842
309000	304327	318.58	-112.08	-50.05	0.7061	2.3087	1.9338	1.426	1.829
310000	305278	317.07	-110.47	-49.15	0.6446	2.1912	2.0084	1.419	1.816
311000	306229	315.56	-108.85	-48.25	0.5830	2.0803	2.0831	1.412	1.803
312000	307180	314.05	-107.23	-47.35	0.5217	1.9755	2.1578	1.405	1.790
313000	308131	312.54	-105.62	-46.45	0.4604	1.8764	2.2324	1.398	1.777
314000	309082	311.03	-104.00	-45.55	0.4000	1.7834	2.3071	1.391	1.764
315000	310033	309.52	-102.39	-44.65	0.3400	1.6961	2.3818	1.384	1.751
316000	310984	308.01	-100.77	-43.75	0.2800	1.6143	2.4565	1.377	1.738
317000	311935	306.50	-99.16	-42.85	0.2200	1.5379	2.5312	1.370	1.725
318000	312886	305.00	-97.54	-41.95	0.1600	1.4667	2.6059	1.363	1.712
319000	313837	303.49	-95.93	-41.05	0.1000	1.3998	2.6806	1.356	1.699
320000	314788	302.00	-94.32	-40.15	0.0400	1.3379	2.7553	1.349	1.686
321000	315739	300.49	-92.71	-39.25	0.0300	1.2800	2.8300	1.342	1.673
322000	316690	299.00	-91.10	-38.35	0.0200	1.2261	2.9047	1.335	1.660
323000	317641	297.50	-89.49	-37.45	0.0100	1.1762	2.9794	1.328	1.647
324000	318592	296.00	-87.88	-36.55	0.0050	1.1303	3.0541	1.321	1.634
325000	319543	294.50	-86.27	-35.65	0.0020	1.0884	3.1288	1.314	1.621
326000	320494	293.00	-84.66	-34.75	0.0010	1.0505	3.2035	1.307	1.608
327000	321445	291.50	-83.05	-33.85	0.0005	1.0166	3.2782	1.300	1.595
328000	322396	290.00	-81.44	-32.95	0.0002	0.9867	3.3529	1.293	1.582
329000	323347	288.50	-79.83	-32.05	0.0001	0.9608	3.4276	1.286	1.569
330000	324298	287.00	-78.22	-31.15	0.0000	0.9389	3.5023	1.279	1.556
331000	325249	285.50	-76.61	-30.25	0.0000	0.9200	3.5770	1.272	1.543
332000	326200	284.00	-75.00	-29.35	0.0000	0.9041	3.6517	1.265	1.530
333000	327151	282.50	-73.39	-28.45	0.0000	0.8902	3.7264	1.258	1.517
334000	328102	281.00	-71.78	-27.55	0.0000	0.8783	3.8011	1.251	1.504
335000	329053	279.50	-70.17	-26.65	0.0000	0.8684	3.8758	1.244	1.491
336000	330004	278.00	-68.56	-25.75	0.0000	0.8605	3.9505	1.237	1.478
337000	330955	276.50	-66.95	-24.85	0.0000	0.8546	4.0252	1.230	1.465
338000	331906	275.00	-65.34	-23.95	0.0000	0.8507	4.1000	1.223	1.452
339000	332857	273.50	-63.73	-23.05	0.0000	0.8488	4.1747	1.216	1.439
340000	333808	272.00	-62.12	-22.15	0.0000	0.8489	4.2494	1.209	1.426
341000	334759	270.50	-60.51	-21.25	0.0000	0.8500	4.3241	1.202	1.413
342000	335710	269.00	-58.90	-20.35	0.0000	0.8521	4.3988	1.195	1.400
343000	336661	267.50	-57.29	-19.45	0.0000	0.8552	4.4735	1.188	1.387
344000	337612	266.00	-55.68	-18.55	0.0000	0.8593	4.5482	1.181	1.374
345000	338563	264.50	-54.07	-17.65	0.0000	0.8644	4.6229	1.174	1.361
346000	339514	263.00	-52.46	-16.75	0.0000	0.8705	4.6976	1.167	1.348
347000	340465	261.50	-50.85	-15.85	0.0000	0.8776	4.7723	1.160	1.335
348000	341416	260.00	-49.24	-14.95	0.0000	0.8857	4.8470	1.153	1.322
349000	342367	258.50	-47.63	-14.05	0.0000	0.8948	4.9217	1.146	1.309
350000	343318	257.00	-46.02	-13.15	0.0000	0.9049	5.0000	1.139	1.296
351000	344269	255.50	-44.41	-12.25	0.0000	0.9160	5.0783	1.132	1.283
352000	345220	254.00	-42.80	-11.35	0.0000	0.9281	5.1566	1.125	1.270
353000	346171	252.50	-41.19	-10.45	0.0000	0.9412	5.2349	1.118	1.257
354000	347122	251.00	-39.58	-9.55	0.0000	0.9553	5.3132	1.111	1.244
355000	348073	249.50	-37.97	-8.65	0.0000	0.9704	5.3915	1.104	1.231
356000	349024	248.00	-36.36	-7.75	0.0000	0.9865	5.4698	1.097	1.218
357000	350000	246.50	-34.75	-6.85	0.0000	1.0036	5.5481	1.090	1.205
358000	350975	245.00	-33.14	-5.95	0.0000	1.0217	5.6264	1.083	1.192
359000	351950	243.50	-31.53	-5.05	0.0000	1.0408	5.7047	1.076	1.179
360000	352925	242.00	-29.92	-4.15	0.0000	1.0609	5.7830	1.069	1.166
361000	353900	240.50	-28.31	-3.25	0.0000	1.0820	5.8613	1.062	1.153
362000	354875	239.00	-26.70	-2.35	0.0000	1.1041	5.9396	1.055	1.140
363000	355850	237.50	-25.09	-1.45	0.0000	1.1272	6.0179	1.048	1.127
364000	356825	236.00	-23.48	-0.55	0.0000	1.1513	6.0962	1.041	1.114
365000	357800	234.50	-21.87	0.35	0.0000	1.1764	6.1745	1.034	1.101
366000	358775	233.00	-20.26	1.45	0.0000	1.2025	6.2528	1.027	1.088
367000	359750	231.50	-18.65	2.55	0.0000	1.2296	6.3311	1.020	1.075
368000	360725	230.00	-17.04	3.65	0.0000	1.2577	6.4094	1.013	1.062
369000	361700	228.50	-15.43	4.75	0.0000	1.2868	6.4877	1.006	1.049
370000	362675	227.00	-13.82	5.85	0.0000	1.3169	6.5660	1.000	1.036
371000	363650	225.50	-12.21	6.95	0.0000	1.3480	6.6443	0.993	1.023
372000	364625	224.00	-10.60	8.05	0.0000	1.3801	6.7226	0.986	1.010
373000	365600	222.50	-9.00	9.15	0.0000	1.4132	6.8009	0.979	0.997
374000	366575	221.00	-7.39	10.25	0.0000	1.4473	6.8792	0.972	0.984
375000	367550	219.50	-5.78	11.35	0.0000	1.4824	6.9575	0.965	0.971
376000	368525	218.00	-4.17	12.45	0.0000	1.5185	7.0358	0.958	0.958
377000	369500	216.50	-2.56	13.55	0.0000	1.5556	7.1141	0.951	0.945
378000	370475	215.00	-0.95	14.65	0.0000	1.5937	7.1924	0.944	0.932
379000	371450	213.50	0.66	15.75	0.0000	1.6328	7.2707	0.937	0.919
380000	372425	212.00	2.27	16.85	0.0000	1.6729	7.3490	0.930	0.906

TABLE IV - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density						
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$					
380000	373199	560.49	100.82	38.24	3.7817	- 5	1.1167	- 6	3.7322	- 8	2.579	- 9	3.372	- 8
381000	374183	563.54	103.87	41.04	3.6650		1.0823		3.6179		2.574		3.357	
382000	375128	570.29	119.92	43.84	3.5329		1.0492		3.5065		2.578		3.369	
383000	376092	575.82	119.95	46.64	3.4655		1.0176		3.4608		2.584		3.387	
384000	377059	588.63	120.98	49.65	3.3419		0.9860	- 7	3.3982		2.595		3.401	
385000	378026	595.67	126.06	52.22	3.2486		0.9573		3.2882		2.611		3.400	
386000	379004	599.68	131.01	55.01	3.1870		0.9332		3.2059		2.636		3.454	
387000	379949	595.49	126.82	57.79	3.0951		0.9219		3.0152		1.953		3.584	
388000	380912	600.70	131.63	60.57	2.9647		0.7607		2.9279		1.000		3.458	
389000	381874	605.69	140.02	63.34	2.8816		0.5699		2.8039		1.010		3.366	
390000	382840	610.68	151.01	66.12	2.7997	- 5	0.2673	- 7	2.7631	- 8	1.748	- 9	2.279	- 8
391000	383808	615.66	155.99	68.88	2.7288		0.2344		2.6957		1.679		2.178	
392000	384767	620.64	160.97	71.65	2.6697		0.2099		2.6101		1.610		2.116	
393000	385730	625.61	165.94	74.41	2.5714		0.1854		2.5370		1.560		2.040	
394000	386693	632.16	172.49	78.03	2.5008		0.1609		2.4681		1.500		1.962	
395000	387654	642.43	182.76	83.78	2.4331		0.1350		2.4013		1.034		1.877	
396000	388620	652.69	193.02	89.44	2.3683		0.0937		2.3374		1.375		1.790	
397000	389583	662.94	203.27	95.15	2.3063		0.0104		2.2761		1.317		1.723	
398000	390546	673.17	213.50	100.84	2.2468		0.6348		2.2174		1.263		1.652	
399000	391508	683.40	223.73	106.52	2.1898		0.6604		2.1611		1.212		1.585	
400000	392471	693.61	233.94	112.19	2.1350	- 5	0.5047	- 7	2.1071	- 8	1.164	- 9	1.522	- 8
401000	393434	714.00	254.33	123.52	2.0519		0.0803		2.0054		1.073		1.405	
402000	394397	734.44	274.79	134.89	1.9367		0.7109		1.9112		0.947	-10	1.301	
403000	395360	754.88	295.19	146.11	1.8906		0.4582		1.8242		0.720		1.207	
404000	396323	775.33	315.24	157.37	1.7684		0.2102		1.7433		1.125		1.122	
405000	397286	795.14	335.49	168.41	1.6991		0.0910		1.6606		1.000		1.045	
406000	398249	815.35	355.48	179.82	1.6190		0.7810		1.5979		0.457		0.751	- 9
407000	399212	835.51	375.84	191.02	1.5527		0.5050		1.5324		0.971		0.615	
408000	400175	855.63	395.94	202.20	1.4904		0.4014		1.4711		0.520		0.534	
409000	401138	875.72	416.05	213.34	1.4324		0.2298		1.4154		0.123		0.084	
420000	411707	895.77	436.10	224.50	1.3777	- 5	0.0405	- 7	1.3597	- 8	5.731	-10	7.521	- 9
421000	412670	915.80	456.13	235.63	1.3264		0.9169		1.3091		5.111		7.075	
422000	413633	935.79	476.12	246.74	1.2781		0.7743		1.2614		5.097		6.645	
423000	414596	955.74	496.09	257.83	1.2326		0.6398		1.2165		4.080		6.207	
424000	415559	975.71	516.04	268.91	1.1896		0.5129		1.1741		4.541		5.730	
425000	416522	995.63	535.96	279.98	1.1490		0.3950		1.1340		4.294		5.615	
426000	417485	1015.52	555.85	291.03	1.1106		0.2794		1.0961		4.065		5.514	
427000	418448	1035.40	575.73	302.07	1.0742		0.1722		1.0602		3.953		5.039	
428000	419411	1055.25	595.58	313.10	1.0397		0.0704		1.0261		3.954		4.781	
429000	420374	1075.09	615.42	324.12	1.0070		0.9737		0.9904	- 9	3.472		4.541	
440000	430907	1094.81	635.24	335.13	0.7591	- 6	2.8819	- 7	0.6315	- 9	3.301	-10	4.317	- 9
441000	431870	1114.71	655.04	346.13	0.7435		2.7945		0.5596		3.142		4.160	
442000	432833	1134.69	674.82	357.12	0.7180		2.7116		0.6017		2.993		3.913	
443000	433796	1154.62	694.51	368.11	0.6915		2.6322		0.7070		2.853		3.731	
444000	434759	1174.52	714.35	379.08	0.6650		2.5564		0.8045		2.722		3.560	
445000	435722	1194.47	734.10	390.05	0.6384		2.4845		0.9034		2.600		3.399	
446000	436685	1214.36	753.85	401.02	0.6109		2.4157		0.0755		2.485		3.240	
447000	437648	1234.22	773.55	411.87	0.5876		2.3499		0.0555		2.374		3.107	
448000	438611	1254.05	793.26	422.82	0.5633		2.2869		0.6430		2.275		2.974	
449000	439574	1273.83	812.96	433.87	0.5402		2.2264		0.6416		2.179		2.849	
460000	450671	1293.32	832.65	444.81	0.5166	- 6	2.1699	- 7	0.7083	- 9	2.088	-10	2.731	- 9
461000	451634	1313.00	852.33	455.74	0.4917		2.1155		0.6035		2.003		2.619	
462000	452597	1332.67	872.00	466.64	0.4772		2.0604		0.6060		1.923		2.514	
463000	453560	1352.33	891.64	477.59	0.4604		2.0094		0.7154		1.847		2.415	
464000	454523	1371.98	911.31	488.50	0.4387		1.9604		0.5519		1.775		2.321	
465000	455486	1391.62	930.95	499.41	0.4193		1.9133		0.3944		1.706		2.231	
466000	456449	1411.24	950.57	510.32	0.4021		1.8681		0.2633		1.642		2.147	
467000	457412	1430.84	970.19	521.21	0.3864		1.8245		0.0978		1.581		2.067	
468000	458375	1449.67	989.80	532.11	0.3684		1.7824		0.9574		1.522		1.991	
469000	459338	1469.06	1009.39	542.99	0.3499		1.7422		0.8224		1.467		1.918	
480000	469199	1488.04	1028.97	553.87	0.3289	- 6	1.7033	- 7	0.6925	- 9	1.415	-10	1.850	- 9
481000	470162	1508.21	1048.54	564.76	0.3068		1.6657		0.5671		1.365		1.785	
482000	471125	1527.75	1068.08	575.60	0.2812		1.6295		0.4400		1.317		1.722	
483000	472088	1547.50	1087.43	586.44	0.2599		1.5946		0.3302		1.272		1.663	
484000	473051	1567.01	1107.14	597.30	0.2385		1.5608		0.2164		1.229		1.607	
485000	474014	1586.31	1126.64	608.13	0.2170		1.5282		0.1074		1.188		1.555	
486000	474977	1605.59	1146.13	618.94	0.1963		1.4967		0.0020		1.149		1.502	
487000	475940	1624.89	1165.62	629.72	0.1764		1.4661		0.9000		1.114		1.457	
488000	476903	1644.03	1185.14	639.99	0.1565		1.4365		0.8010		1.081		1.414	
489000	477866	1663.16	1199.49	649.05	0.1367		1.4078		0.7050		1.050		1.373	
500000	488291	1663.40	1203.61	651.01	0.4728	- 6	1.3799	- 7	0.6117	- 9	1.020	-10	1.333	- 9
501000	489254	1677.78	1218.11	658.95	0.4510		1.3520		0.5211		0.995	-11	1.295	
502000	490217	1692.04	1232.39	666.88	0.4291		1.3265		0.4331		0.925		1.259	
503000	491180	1706.31	1246.64	674.80	0.4053		1.3009		0.3477		0.855		1.223	
504000	492143	1720.54	1260.87	682.70	0.3811		1.2760		0.2644		0.995		1.189	
505000	493106	1734.75	1275.08	690.60	0.3532		1.2510		0.1830		0.865		1.157	
506000	494069	1748.93	1289.24	698.48	0.3254		1.2263		0.1033		0.803		1.125	
507000	495032	1763.04	1303.41	706.34	0.2982		1.2015		0.0289		0.370		1.095	
508000	495995	1777.21	1317.54	714.19	0.2699		1.1832		0.9545		0.164		1.065	
509000	496958	1791.31	1331.64	722.02	0.2337		1.1616		0.8822		0.929		1.037	

TABLE IX - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
520000	507347	1003.39	1345.72	729.85	3.8223 - 6	1.1405 - 7	3.8118 - 9	7.720 -11	1.009 - 9
525000	509251	1019.45	1359.78	737.52	3.7029	1.1100	3.7453	7.518	9.830 -10
530000	511156	1035.47	1373.80	745.44	3.5795	1.0801	3.6764	7.322	9.575
535000	513057	1051.47	1387.81	753.17	3.4594	1.0504	3.6115	7.165	9.345
540000	514950	1067.42	1401.72	760.75	3.3421	1.0210	3.5499	6.981	9.128
545000	516833	1083.32	1415.55	768.09	3.2282	1.0021	3.4904	6.822	8.920
550000	518704	1099.17	1429.32	775.18	3.1178	1.0029	3.4329	6.667	8.718
555000	520564	1114.97	1443.00	782.02	3.0109	1.0072	3.3762	6.517	8.521
560000	522417	1130.72	1456.57	788.65	2.9074	1.0090	3.3203	6.370	8.330
565000	524262	1146.42	1470.07	795.07	2.8074	1.0095	3.2651	6.229	8.143
570000	526100	1162.07	1483.50	801.30	2.7109	1.0094	3.2104	6.090	7.964 -10
575000	527930	1177.67	1496.85	807.35	2.6179	1.0088	3.1562	5.954	7.788
580000	529752	1193.22	1510.15	813.22	2.5284	1.0077	3.1025	5.825	7.617
585000	531565	1208.72	1523.35	818.90	2.4424	1.0062	3.0492	5.698	7.450
590000	533369	1224.17	1536.45	824.40	2.3599	1.0043	2.9962	5.576	7.289
595000	535164	1239.57	1549.45	829.70	2.2809	1.0020	2.9437	5.453	7.131
600000	536950	1254.92	1562.35	834.85	2.2054	1.0003	2.8917	5.336	6.978
605000	538727	1270.22	1575.15	839.85	2.1334	0.9982	2.8402	5.222	6.829
610000	540495	1285.47	1587.85	844.70	2.0649	0.9958	2.7892	5.111	6.683
615000	542254	1300.67	1600.45	849.40	2.0000	0.9930	2.7387	5.004	6.543
620000	544004	1315.82	1612.95	853.95	1.9386	0.9898	2.6887	4.900	6.415 -10
625000	545745	1330.92	1625.35	858.35	1.8807	0.9863	2.6392	4.810	6.290
630000	547477	1345.97	1637.65	862.60	1.8263	0.9825	2.5902	4.716	6.167
635000	549199	1360.97	1649.85	866.70	1.7754	0.9784	2.5417	4.625	6.048
640000	550912	1375.92	1661.95	870.65	1.7279	0.9740	2.4937	4.535	5.931
645000	552616	1390.82	1673.95	874.45	1.6839	0.9693	2.4462	4.448	5.817
650000	554311	1405.67	1685.85	878.10	1.6434	0.9643	2.4002	4.363	5.705
655000	556000	1420.47	1697.65	881.60	1.6054	0.9590	2.3547	4.279	5.594
660000	557680	1435.22	1709.35	884.95	1.5700	0.9534	2.3107	4.198	5.489
665000	559351	1449.92	1720.95	888.15	1.5371	0.9475	2.2682	4.118	5.385
670000	561012	1464.57	1732.45	891.20	1.5068	0.9413	2.2272	4.040	5.283
675000	562664	1479.17	1743.85	894.10	1.4790	0.9348	2.1877	3.964	5.184
680000	564307	1493.72	1755.15	896.85	1.4537	0.9280	2.1497	3.890	5.086
685000	565941	1508.22	1766.35	900.45	1.4300	0.9209	2.1132	3.817	4.991
690000	567566	1522.67	1777.45	903.90	1.4079	0.9135	2.0782	3.746	4.898
695000	569181	1537.07	1788.45	907.20	1.3874	0.9058	2.0447	3.676	4.807
700000	570787	1551.42	1799.35	910.35	1.3685	0.8978	2.0127	3.608	4.718
705000	572384	1565.72	1810.15	913.35	1.3512	0.8895	1.9822	3.541	4.631
710000	573971	1580.00	1820.85	916.20	1.3355	0.8809	1.9532	3.476	4.546
715000	575549	1594.22	1831.45	918.90	1.3214	0.8720	1.9257	3.413	4.462
720000	577117	1608.37	1841.95	921.45	1.3089	0.8628	1.8997	3.350	4.381 -10
725000	578676	1622.47	1852.35	923.85	1.2979	0.8533	1.8752	3.289	4.301
730000	580225	1636.52	1862.65	926.10	1.2884	0.8436	1.8522	3.230	4.223
735000	581764	1650.52	1872.85	928.20	1.2804	0.8337	1.8307	3.171	4.147
740000	583293	1664.47	1882.95	930.15	1.2739	0.8235	1.8107	3.114	4.072
745000	584812	1678.37	1892.95	931.95	1.2689	0.8130	1.7922	3.058	3.999
750000	586321	1692.22	1902.85	933.60	1.2654	0.8022	1.7752	3.003	3.927
755000	587820	1706.02	1912.65	935.10	1.2634	0.7911	1.7597	2.950	3.857
760000	589309	1719.77	1922.35	936.45	1.2629	0.7797	1.7457	2.897	3.789
765000	590788	1733.47	1931.95	937.65	1.2639	0.7680	1.7332	2.846	3.721
770000	592257	1747.12	1941.45	938.70	1.2664	0.7560	1.7224	2.796	3.654 -10
775000	593716	1760.72	1950.85	939.60	1.2704	0.7437	1.7132	2.746	3.591
780000	595165	1774.27	1960.15	940.35	1.2759	0.7311	1.7054	2.696	3.529
785000	596604	1787.77	1969.35	940.95	1.2830	0.7182	1.6980	2.646	3.471
790000	598033	1801.22	1978.45	941.40	1.2916	0.7050	1.6919	2.596	3.413
795000	599452	1814.62	1987.45	941.70	1.3017	0.6915	1.6870	2.547	3.357
800000	600861	1827.97	1996.35	941.85	1.3134	0.6777	1.6832	2.498	3.301
805000	602260	1841.27	2005.15	941.85	1.3267	0.6636	1.6804	2.448	3.247
810000	603649	1854.52	2013.85	941.70	1.3416	0.6491	1.6786	2.398	3.194
815000	605028	1867.72	2022.45	941.40	1.3581	0.6343	1.6778	2.348	3.141
820000	606397	1880.87	2030.95	940.95	1.3762	0.6191	1.6780	2.298	3.089 -10
825000	607756	1893.97	2039.35	940.35	1.3960	0.6035	1.6792	2.248	3.039
830000	609105	1907.02	2047.65	939.60	1.4175	0.5875	1.6814	2.198	2.990
835000	610444	1920.02	2055.85	938.70	1.4408	0.5711	1.6846	2.148	2.941
840000	611773	1932.97	2063.95	937.65	1.4660	0.5543	1.6888	2.098	2.891
845000	613092	1945.87	2071.95	936.45	1.4932	0.5370	1.6940	2.048	2.841
850000	614401	1958.72	2079.85	935.10	1.5225	0.5192	1.7002	1.998	2.791
855000	615700	1971.52	2087.65	933.60	1.5539	0.5009	1.7074	1.948	2.741
860000	617000	1984.27	2095.35	931.95	1.5874	0.4821	1.7156	1.898	2.691
865000	618299	1996.97	2102.95	930.15	1.6231	0.4628	1.7248	1.848	2.641
870000	619588	2009.62	2110.45	928.20	1.6610	0.4430	1.7350	1.798	2.591
875000	620867	2022.22	2117.85	926.10	1.7012	0.4227	1.7462	1.748	2.541
880000	622136	2034.77	2125.15	923.85	1.7437	0.4019	1.7584	1.698	2.491
885000	623395	2047.27	2132.35	921.45	1.7886	0.3806	1.7716	1.648	2.441
890000	624644	2059.72	2139.45	918.90	1.8359	0.3588	1.7858	1.598	2.391
895000	625883	2072.12	2146.45	916.20	1.8857	0.3365	1.7999	1.548	2.341
900000	627112	2084.47	2153.35	913.35	1.9380	0.3137	1.8149	1.498	2.291
905000	628331	2096.77	2160.15	910.35	1.9928	0.2904	1.8308	1.448	2.241
910000	629550	2109.02	2166.85	907.20	2.0502	0.2666	1.8476	1.398	2.191
915000	630769	2121.22	2173.45	903.90	2.1103	0.2422	1.8653	1.348	2.141
920000	631978	2133.37	2179.95	900.45	2.1732	0.2173	1.8839	1.298	2.091
925000	633177	2145.47	2186.35	896.85	2.2390	0.1919	1.9034	1.248	2.041
930000	634366	2157.52	2192.65	893.10	2.3078	0.1650	1.9238	1.198	1.991
935000	635545	2169.52	2198.85	889.20	2.3796	0.1376	1.9451	1.148	1.941
940000	636714	2181.47	2204.95	885.15	2.4544	0.1097	1.9673	1.098	1.891
945000	637873	2193.37	2210.95	880.95	2.5323	0.0813	1.9904	1.048	1.841
950000	639022	2205.22	2216.85	876.60	2.6134	0.0524	2.0144	0.998	1.791
955000	640161	2217.02	2222.65	872.10	2.6978	0.0230	2.0394	0.948	1.741
960000	641290	2228.77	2228.35	867.45	2.7856	0.0031	2.0654	0.898	1.691
965000	642419	2240.47	2233.95	862.65	2.8769	0.0000	2.0924	0.848	1.641
970000	643538	2252.12	2239.45	857.70	2.9718	0.0000	2.1204	0.798	1.591
975000	644647	2263.72	2244.85	852.60	3.0704	0.0000	2.1494	0.748	1.541
980000	645746	2275.27	2250.15	847.35	3.1728	0.0000	2.1794	0.698	1.491
985000	646835	2286.77	2255.35	841.95	3.2790	0.0000	2.2104	0.648	1.441
990000	647914	2298.22	2260.45	836.40	3.3892	0.0000	2.2424	0.598	1.391
995000	648983	2309.62	2265.45	830.70	3.5036	0.0000	2.2754	0.548	1.341
1000000	650042	2320.97	2270.35	824.85	3.6224	0.0000	2.3094	0.498	1.291

TABLE IX—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
600000	658524	2263.51	1903.04	989.35	1.1319	3.5424	1.1171	1.713	2.240
602000	660399	2264.72	1907.05	990.14	1.1164	3.2973	1.1020	1.685	2.209
604000	662274	2265.93	1910.26	990.92	1.1010	3.0530	1.0872	1.660	2.179
606000	664149	2267.13	1913.46	991.70	1.0860	2.8093	1.0726	1.634	2.157
608000	666023	2268.33	1916.66	992.48	1.0722	2.5663	1.0582	1.609	2.134
610000	667897	2269.52	1919.85	993.25	1.0588	2.3240	1.0441	1.584	2.072
612000	669771	2270.70	1923.03	994.02	1.0458	2.0824	1.0302	1.560	2.040
614000	671645	2271.88	1926.21	994.79	1.0329	1.8414	1.0163	1.536	2.008
616000	673518	2273.05	1929.38	995.55	1.0203	1.6010	1.0026	1.512	1.976
618000	675390	2274.22	1932.55	1000.00	1.0082	1.3613	0.9891	1.489	1.947
700000	677263	2295.37	1935.70	1002.04	0.8955	2.0221	0.7661	1.407	1.918
702000	679135	2296.53	1938.84	1003.81	0.7657	1.7824	0.6374	1.400	1.889
704000	681006	2297.67	1942.00	1005.58	0.6366	1.5437	0.5106	1.422	1.860
706000	682877	2298.81	1945.16	1007.34	0.5102	1.3053	0.3858	1.401	1.832
708000	684747	2299.94	1948.32	1009.09	0.3858	1.0670	0.2619	1.380	1.804
710000	686619	2301.07	1951.48	1010.84	0.2619	0.8287	0.1380	1.359	1.777
712000	688489	2302.19	1954.63	1012.59	0.1380	0.5904	0.0741	1.338	1.750
714000	690359	2303.30	1957.79	1014.34	0.0741	0.3521	0.0402	1.317	1.724
716000	692229	2304.41	1960.94	1016.09	0.0402	0.2138	0.0223	1.296	1.698
718000	694098	2305.51	1964.09	1017.84	0.0223	0.1255	0.0125	1.275	1.672
720000	695967	2326.60	1966.95	1019.41	0.6773	2.3624	0.3639	1.260	1.647
722000	697836	2327.77	1970.02	1021.12	0.5455	2.1229	0.2955	1.261	1.623
724000	699704	2328.93	1973.10	1022.83	0.4137	1.8834	0.2271	1.223	1.599
726000	701572	2330.08	1976.17	1024.54	0.2820	1.6439	0.1587	1.204	1.575
728000	703439	2331.23	1979.24	1026.24	0.1503	1.4044	0.0903	1.187	1.552
730000	705306	2332.38	1982.30	1027.94	0.0903	1.1649	0.0519	1.169	1.529
732000	707173	2333.52	1985.35	1029.64	0.0519	0.9254	0.0280	1.152	1.506
734000	709040	2334.67	1988.40	1031.35	0.0280	0.6859	0.0151	1.135	1.484
736000	710908	2335.81	1991.44	1033.05	0.0151	0.4464	0.0082	1.118	1.462
738000	712771	2336.95	1994.48	1034.71	0.0082	0.2069	0.0043	1.102	1.441
740000	714637	2357.17	1997.50	1036.39	0.6311	2.2535	0.3513	1.086	1.420
742000	716502	2358.31	1999.52	1038.07	0.5000	2.0140	0.2829	1.070	1.399
744000	718367	2359.45	2001.54	1039.74	0.3689	1.7745	0.2145	1.054	1.378
746000	720231	2360.58	2003.56	1041.40	0.2378	1.5350	0.1461	1.038	1.357
748000	722095	2361.72	2005.58	1043.06	0.1461	1.2955	0.0877	1.022	1.336
750000	723959	2362.85	2007.60	1044.71	0.0877	1.0560	0.0493	1.006	1.315
752000	725822	2363.98	2009.62	1046.37	0.0493	0.8165	0.0254	0.990	1.294
754000	727686	2365.11	2011.64	1048.02	0.0254	0.5770	0.0135	0.974	1.273
756000	729549	2366.25	2013.66	1049.67	0.0135	0.3375	0.0076	0.958	1.252
758000	731410	2367.38	2015.68	1051.32	0.0076	0.0980	0.0047	0.942	1.231
760000	733272	2384.54	2020.89	1051.61	0.7295	2.2672	0.4015	0.390	1.229
762000	735134	2385.68	2023.91	1053.27	0.5984	2.0277	0.3331	0.268	1.212
764000	736995	2386.81	2026.93	1054.93	0.4673	1.7882	0.2647	0.199	1.195
766000	738856	2387.95	2029.95	1056.59	0.3362	1.5487	0.1963	0.130	1.178
768000	740717	2389.08	2032.97	1058.24	0.2051	1.3092	0.1279	0.061	1.162
770000	742577	2390.22	2035.99	1059.89	0.1279	1.0697	0.0741	0.032	1.146
772000	744438	2391.35	2039.01	1061.54	0.0741	0.8302	0.0457	0.016	1.130
774000	746298	2392.48	2042.03	1063.19	0.0457	0.5907	0.0273	0.008	1.114
776000	748158	2393.61	2045.05	1064.84	0.0273	0.3512	0.0159	0.004	1.098
778000	750018	2394.75	2048.07	1066.49	0.0159	0.1117	0.0095	0.002	1.082
780000	751878	2404.55	2054.00	1062.71	0.5982	2.2565	0.3513	0.179	1.070
782000	753738	2405.68	2057.02	1064.37	0.4673	2.0170	0.2829	0.067	1.055
784000	755598	2406.81	2060.04	1066.02	0.3362	1.7775	0.2145	0.027	1.040
786000	757458	2407.95	2063.06	1067.67	0.2051	1.5380	0.1461	0.009	1.024
788000	759318	2409.08	2066.08	1069.32	0.1279	1.2985	0.0877	0.004	1.008
790000	761178	2410.22	2069.10	1070.97	0.0741	1.0590	0.0519	0.002	0.992
792000	763038	2411.35	2072.12	1072.62	0.0457	0.8195	0.0305	0.001	0.976
794000	764898	2412.48	2075.14	1074.27	0.0273	0.5800	0.0181	0.000	0.960
796000	766758	2413.61	2078.16	1075.92	0.0181	0.3405	0.0107	0.000	0.944
798000	768618	2414.75	2081.18	1077.57	0.0107	0.1010	0.0063	0.000	0.928
800000	770478	2424.00	2086.35	1073.52	0.2687	1.5559	0.1390	0.135	0.930
802000	772338	2425.13	2089.37	1075.17	0.1390	1.3164	0.0806	0.080	0.920
804000	774198	2426.27	2092.39	1076.82	0.0806	1.0769	0.0493	0.040	0.910
806000	776058	2427.40	2095.41	1078.47	0.0493	0.8374	0.0280	0.023	0.900
808000	777918	2428.54	2098.43	1080.12	0.0280	0.5979	0.0166	0.012	0.890
810000	779778	2429.67	2101.45	1081.77	0.0166	0.3584	0.0099	0.006	0.880
812000	781638	2430.81	2104.47	1083.42	0.0099	0.1189	0.0059	0.003	0.870
814000	783498	2431.94	2107.49	1085.07	0.0059	0.0794	0.0035	0.001	0.860
816000	785358	2433.08	2110.51	1086.72	0.0035	0.0399	0.0021	0.000	0.850
818000	787218	2434.21	2113.53	1088.37	0.0021	0.0204	0.0013	0.000	0.840
820000	789078	2435.35	2116.55	1090.02	0.0013	0.0109	0.0008	0.000	0.830
822000	790938	2436.48	2119.57	1091.67	0.0008	0.0064	0.0005	0.000	0.820
824000	792798	2437.62	2122.59	1093.32	0.0005	0.0039	0.0003	0.000	0.810
826000	794658	2438.75	2125.61	1094.97	0.0003	0.0024	0.0002	0.000	0.800
828000	796518	2439.89	2128.63	1096.62	0.0002	0.0014	0.0001	0.000	0.790
830000	798378	2441.02	2131.65	1098.27	0.0001	0.0009	0.0000	0.000	0.780
832000	800238	2442.16	2134.67	1100.00	0.0000	0.0005	0.0000	0.000	0.770
834000	802098	2443.29	2137.69	1101.65	0.0000	0.0003	0.0000	0.000	0.760
836000	803958	2444.43	2140.71	1103.30	0.0000	0.0002	0.0000	0.000	0.750
838000	805818	2445.56	2143.73	1104.95	0.0000	0.0001	0.0000	0.000	0.740
840000	807678	2446.70	2146.75	1106.60	0.0000	0.0000	0.0000	0.000	0.730
842000	809538	2447.83	2149.77	1108.25	0.0000	0.0000	0.0000	0.000	0.720
844000	811398	2448.97	2152.79	1109.90	0.0000	0.0000	0.0000	0.000	0.710
846000	813258	2450.10	2155.81	1111.55	0.0000	0.0000	0.0000	0.000	0.700
848000	815118	2451.24	2158.83	1113.20	0.0000	0.0000	0.0000	0.000	0.690
850000	816978	2452.37	2161.85	1114.85	0.0000	0.0000	0.0000	0.000	0.680
852000	818838	2453.51	2164.87	1116.50	0.0000	0.0000	0.0000	0.000	0.670
854000	820698	2454.64	2167.89	1118.15	0.0000	0.0000	0.0000	0.000	0.660
856000	822558	2455.78	2170.91	1119.80	0.0000	0.0000	0.0000	0.000	0.650
858000	824418	2456.91	2173.93	1121.45	0.0000	0.0000	0.0000	0.000	0.640

TABLE IX — Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
900000	863750	2613.04	2053.59	1129.99	2.9534	0.7373	2.9262	1.724	0.870
905000	867325	2517.16	2057.49	1129.27	2.8722	0.7090	2.8456	1.618	0.720
910000	871000	2521.28	2061.59	1129.55	2.8001	0.6807	2.7655	1.500	0.576
915000	874675	2525.39	2065.69	1129.77	2.7280	0.6521	2.6857	1.383	0.457
920000	878350	2529.50	2069.79	1129.99	2.6559	0.6234	2.6053	1.266	0.362
925000	882025	2533.61	2073.89	1130.19	2.5838	0.5947	2.5248	1.150	0.272
930000	885700	2537.72	2077.99	1130.39	2.5117	0.5660	2.4442	1.034	0.182
935000	889375	2541.83	2082.09	1130.59	2.4396	0.5373	2.3636	0.918	0.092
940000	893050	2545.94	2086.19	1130.79	2.3675	0.5086	2.2830	0.802	0.002
945000	896725	2550.05	2090.29	1130.99	2.2954	0.4799	2.2024	0.686	0.000
950000	900400	2554.16	2094.39	1131.19	2.2233	0.4512	2.1218	0.570	0.000
955000	904075	2558.27	2098.49	1131.39	2.1512	0.4225	2.0412	0.454	0.000
960000	907750	2562.38	2102.59	1131.59	2.0791	0.3938	1.9606	0.338	0.000
965000	911425	2566.49	2106.69	1131.79	2.0070	0.3651	1.8800	0.222	0.000
970000	915100	2570.60	2110.79	1131.99	1.9349	0.3364	1.8000	0.106	0.000
975000	918775	2574.71	2114.89	1132.19	1.8628	0.3077	1.7200	0.000	0.000
980000	922450	2578.82	2118.99	1132.39	1.7907	0.2790	1.6400	0.000	0.000
985000	926125	2582.93	2123.09	1132.59	1.7186	0.2503	1.5600	0.000	0.000
990000	929800	2587.04	2127.19	1132.79	1.6465	0.2216	1.4800	0.000	0.000
995000	933475	2591.15	2131.29	1132.99	1.5744	0.1929	1.4000	0.000	0.000
1000000	937150	2595.26	2135.39	1133.19	1.5023	0.1642	1.3200	0.000	0.000
1005000	940825	2599.37	2139.49	1133.39	1.4302	0.1355	1.2400	0.000	0.000
1010000	944500	2603.48	2143.59	1133.59	1.3581	0.1068	1.1600	0.000	0.000
1015000	948175	2607.59	2147.69	1133.79	1.2860	0.0781	1.0800	0.000	0.000
1020000	951850	2611.70	2151.79	1133.99	1.2139	0.0494	1.0000	0.000	0.000
1025000	955525	2615.81	2155.89	1134.19	1.1418	0.0207	0.9200	0.000	0.000
1030000	959200	2619.92	2159.99	1134.39	1.0697	0.0000	0.8400	0.000	0.000
1035000	962875	2624.03	2164.09	1134.59	1.0000	0.0000	0.7600	0.000	0.000
1040000	966550	2628.14	2168.19	1134.79	0.9303	0.0000	0.6800	0.000	0.000
1045000	970225	2632.25	2172.29	1134.99	0.8606	0.0000	0.6000	0.000	0.000
1050000	973900	2636.36	2176.39	1135.19	0.7909	0.0000	0.5200	0.000	0.000
1055000	977575	2640.47	2180.49	1135.39	0.7212	0.0000	0.4400	0.000	0.000
1060000	981250	2644.58	2184.59	1135.59	0.6515	0.0000	0.3600	0.000	0.000
1065000	984925	2648.69	2188.69	1135.79	0.5818	0.0000	0.2800	0.000	0.000
1070000	988600	2652.80	2192.79	1135.99	0.5121	0.0000	0.2000	0.000	0.000
1075000	992275	2656.91	2196.89	1136.19	0.4424	0.0000	0.1200	0.000	0.000
1080000	995950	2661.02	2200.99	1136.39	0.3727	0.0000	0.0400	0.000	0.000
1085000	999625	2665.13	2205.09	1136.59	0.3030	0.0000	0.0000	0.000	0.000
1090000	1003400	2669.24	2209.19	1136.79	0.2333	0.0000	0.0000	0.000	0.000
1095000	1007075	2673.35	2213.29	1136.99	0.1636	0.0000	0.0000	0.000	0.000
1100000	1010750	2677.46	2217.39	1137.19	0.0939	0.0000	0.0000	0.000	0.000
1105000	1014425	2681.57	2221.49	1137.39	0.0242	0.0000	0.0000	0.000	0.000
1110000	1018100	2685.68	2225.59	1137.59	0.0000	0.0000	0.0000	0.000	0.000
1115000	1021775	2689.79	2229.69	1137.79	0.0000	0.0000	0.0000	0.000	0.000
1120000	1025450	2693.90	2233.79	1137.99	0.0000	0.0000	0.0000	0.000	0.000
1125000	1029125	2698.01	2237.89	1138.19	0.0000	0.0000	0.0000	0.000	0.000
1130000	1032800	2702.12	2241.99	1138.39	0.0000	0.0000	0.0000	0.000	0.000
1135000	1036475	2706.23	2246.09	1138.59	0.0000	0.0000	0.0000	0.000	0.000
1140000	1040150	2710.34	2250.19	1138.79	0.0000	0.0000	0.0000	0.000	0.000
1145000	1043825	2714.45	2254.29	1138.99	0.0000	0.0000	0.0000	0.000	0.000
1150000	1047500	2718.56	2258.39	1139.19	0.0000	0.0000	0.0000	0.000	0.000
1155000	1051175	2722.67	2262.49	1139.39	0.0000	0.0000	0.0000	0.000	0.000
1160000	1054850	2726.78	2266.59	1139.59	0.0000	0.0000	0.0000	0.000	0.000
1165000	1058525	2730.89	2270.69	1139.79	0.0000	0.0000	0.0000	0.000	0.000
1170000	1062200	2735.00	2274.79	1139.99	0.0000	0.0000	0.0000	0.000	0.000
1175000	1065875	2739.11	2278.89	1140.19	0.0000	0.0000	0.0000	0.000	0.000
1180000	1069550	2743.22	2282.99	1140.39	0.0000	0.0000	0.0000	0.000	0.000
1185000	1073225	2747.33	2287.09	1140.59	0.0000	0.0000	0.0000	0.000	0.000
1190000	1076900	2751.44	2291.19	1140.79	0.0000	0.0000	0.0000	0.000	0.000
1195000	1080575	2755.55	2295.29	1140.99	0.0000	0.0000	0.0000	0.000	0.000
1200000	1084250	2759.66	2299.39	1141.19	0.0000	0.0000	0.0000	0.000	0.000
1205000	1087925	2763.77	2303.49	1141.39	0.0000	0.0000	0.0000	0.000	0.000
1210000	1091600	2767.88	2307.59	1141.59	0.0000	0.0000	0.0000	0.000	0.000
1215000	1095275	2771.99	2311.69	1141.79	0.0000	0.0000	0.0000	0.000	0.000
1220000	1098950	2776.10	2315.79	1141.99	0.0000	0.0000	0.0000	0.000	0.000
1225000	1102625	2780.21	2319.89	1142.19	0.0000	0.0000	0.0000	0.000	0.000
1230000	1106300	2784.32	2323.99	1142.39	0.0000	0.0000	0.0000	0.000	0.000
1235000	1109975	2788.43	2328.09	1142.59	0.0000	0.0000	0.0000	0.000	0.000
1240000	1113650	2792.54	2332.19	1142.79	0.0000	0.0000	0.0000	0.000	0.000
1245000	1117325	2796.65	2336.29	1142.99	0.0000	0.0000	0.0000	0.000	0.000
1250000	1121000	2800.76	2340.39	1143.19	0.0000	0.0000	0.0000	0.000	0.000
1255000	1124675	2804.87	2344.49	1143.39	0.0000	0.0000	0.0000	0.000	0.000
1260000	1128350	2808.98	2348.59	1143.59	0.0000	0.0000	0.0000	0.000	0.000
1265000	1132025	2813.09	2352.69	1143.79	0.0000	0.0000	0.0000	0.000	0.000
1270000	1135700	2817.20	2356.79	1143.99	0.0000	0.0000	0.0000	0.000	0.000
1275000	1139375	2821.31	2360.89	1144.19	0.0000	0.0000	0.0000	0.000	0.000
1280000	1143050	2825.42	2364.99	1144.39	0.0000	0.0000	0.0000	0.000	0.000
1285000	1146725	2829.53	2369.09	1144.59	0.0000	0.0000	0.0000	0.000	0.000
1290000	1150400	2833.64	2373.19	1144.79	0.0000	0.0000	0.0000	0.000	0.000
1295000	1154075	2837.75	2377.29	1144.99	0.0000	0.0000	0.0000	0.000	0.000
1300000	1157750	2841.86	2381.39	1145.19	0.0000	0.0000	0.0000	0.000	0.000
1305000	1161425	2845.97	2385.49	1145.39	0.0000	0.0000	0.0000	0.000	0.000
1310000	1165100	2850.08	2389.59	1145.59	0.0000	0.0000	0.0000	0.000	0.000
1315000	1168775	2854.19	2393.69	1145.79	0.0000	0.0000	0.0000	0.000	0.000
1320000	1172450	2858.30	2397.79	1145.99	0.0000	0.0000	0.0000	0.000	0.000
1325000	1176125	2862.41	2401.89	1146.19	0.0000	0.0000	0.0000	0.000	0.000
1330000	1179800	2866.52	2405.99	1146.39	0.0000	0.0000	0.0000	0.000	0.000
1335000	1183475	2870.63	2410.09	1146.59	0.0000	0.0000	0.0000	0.000	0.000
1340000	1187150	2874.74	2414.19	1146.79	0.0000	0.0000	0.0000	0.000	0.000
1345000	1190825	2878.85	2418.29	1146.99	0.0000	0.0000	0.0000	0.000	0.000
1350000	1194500	2882.96	2422.39	1147.19	0.0000	0.0000	0.0000	0.000	0.000
1355000	1198175	2887.07	2426.49	1147.39	0.0000	0.0000	0.0000	0.000	0.000
1360000	1201850	2891.18	2430.59	1147.59	0.0000	0.0000	0.0000	0.000	0.000
1365000	1205525	2895.29	2434.69	1147.79	0.0000	0.0000	0.0000	0.000	0.000
1370000	1209200	2899.40	2438.79	1147.99	0.0000	0.0000	0.0000	0.000	0.000
1375000	1212875	2903.51	2442.89	1148.19	0.0000	0.0000	0.0000	0.000	0.000
1380000	1216550	2907.62	2446.99	1148.39	0.0000	0.0000	0.0000	0.000	0.000
1385000	1220225	2911.73	2451.09	1148.59	0.0000	0.0000	0.0000	0.000	0.000
1390000	1223900	2915.84	2455.19	1148.79	0.0000	0.0000	0.0000	0.000	0.000
1395000	1227575	2919.95	2459.29	1148.99	0.0000	0.0000	0.0000	0.000	0.000
1400000	1231250	2924.06	2463.39	1149.19	0.0000	0.0000	0.0000	0.000	0.000
1405000	1234925	2928.17	2467.49	1149.39	0.0000	0.0000	0.0000	0.000	0.000
1410000	1238600	2932.28	2471.59	1149.59					

TABLE IX - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
130000	1225696	2674.24	2216.57	1212.54	6.2609	4.7347	6.1633	4.301	5.625
130500	1228125	2675.67	2215.00	1213.22	6.1527	4.6281	6.1044	4.200	5.602
131000	1230552	2676.70	2217.03	1213.91	6.0700	4.5221	6.0175	4.102	5.584
131500	1232978	2677.23	2217.54	1214.29	5.9889	4.4167	5.9320	4.007	5.560
132000	1235401	2677.15	2217.40	1214.15	5.9019	4.3129	5.8500	3.915	5.538
132500	1237822	2677.07	2217.40	1214.11	5.8190	4.2107	5.7691	3.824	5.503
133000	1240241	2676.99	2217.32	1214.07	5.7390	4.1091	5.6907	3.730	5.469
133500	1242658	2676.93	2217.24	1214.03	5.6600	4.0089	5.6129	3.636	5.437
134000	1245074	2676.87	2217.20	1214.00	5.5810	3.9093	5.5376	3.542	5.405
134500	1247487	2676.82	2217.15	1213.97	5.5020	3.8104	5.4639	3.449	5.365
135000	1249898	2676.77	2217.10	1213.95	5.4230	3.7119	5.3920	3.352	5.322
135500	1252307	2676.74	2217.07	1213.93	5.3457	3.6139	5.3217	3.256	5.282
136000	1254715	2676.71	2217.04	1213.91	5.2691	3.5164	5.2520	3.161	5.244
136500	1257120	2676.69	2217.02	1213.90	5.1921	3.4193	5.1829	3.066	5.200
137000	1259523	2676.68	2217.01	1213.90	5.1150	3.3227	5.1150	2.971	5.159
137500	1261925	2676.69	2217.02	1213.90	5.0380	3.2265	5.0464	2.876	5.119
138000	1264324	2676.70	2217.03	1213.90	4.9610	3.1307	4.9752	2.781	5.079
138500	1266721	2676.72	2217.05	1213.92	4.8840	3.0353	4.9000	2.686	5.039
139000	1269117	2676.75	2217.06	1213.93	4.8070	2.9403	4.8250	2.591	4.999
139500	1271510	2676.79	2217.12	1213.96	4.7300	2.8457	4.7500	2.496	4.959
140000	1273902	2676.85	2217.10	1213.99	4.6530	2.7515	4.6750	2.401	4.919
140500	1276291	2676.91	2217.34	1214.02	4.5760	2.6577	4.6000	2.306	4.879
141000	1278679	2676.99	2217.52	1214.07	4.4990	2.5643	4.5250	2.211	4.839
141500	1281066	2677.00	2217.61	1214.12	4.4220	2.4713	4.4500	2.116	4.799
142000	1283450	2677.10	2217.52	1214.10	4.3450	2.3787	4.3750	2.021	4.759
142500	1285832	2677.30	2217.63	1214.26	4.2680	2.2863	4.2990	1.926	4.719
143000	1288211	2677.63	2217.76	1214.31	4.1910	2.1943	4.2250	1.831	4.679
143500	1290586	2677.30	2217.91	1214.39	4.1140	2.1027	4.1500	1.736	4.639
144000	1292958	2677.73	2218.04	1214.40	4.0370	2.0114	4.0750	1.641	4.599
144500	1295326	2677.98	2218.23	1214.57	3.9600	1.9203	4.0000	1.546	4.559
145000	1297691	2678.09	2218.62	1214.64	3.8830	1.8297	3.9250	1.451	4.519
145500	1300052	2678.29	2219.02	1214.79	3.8060	1.7393	3.8500	1.356	4.479
146000	1302409	2678.51	2219.04	1214.91	3.7290	1.6493	3.7750	1.261	4.439
146500	1304762	2678.74	2219.07	1215.04	3.6520	1.5597	3.7000	1.166	4.399
147000	1307111	2678.99	2219.32	1215.10	3.5750	1.4703	3.6250	1.071	4.359
147500	1309456	2679.25	2219.50	1215.32	3.4980	1.3813	3.5500	0.976	4.319
148000	1311797	2679.53	2219.66	1215.40	3.4210	1.2927	3.4750	0.881	4.279
148500	1314134	2679.83	2219.76	1215.45	3.3440	1.2043	3.4000	0.786	4.239
149000	1316467	2680.10	2219.80	1215.52	3.2670	1.1163	3.3250	0.691	4.199
149500	1318795	2680.40	2219.81	1215.60	3.1900	1.0287	3.2500	0.596	4.159
150000	1321117	2680.83	2221.16	1216.20	3.1130	0.9417	3.1750	0.501	4.119
150500	1323434	2681.19	2221.32	1216.40	3.0360	0.8553	3.1000	0.406	4.079
151000	1325747	2681.50	2221.91	1216.61	2.9590	0.7693	3.0250	0.311	4.039
151500	1328056	2681.90	2222.51	1216.81	2.8820	0.6837	2.9500	0.216	3.999
152000	1330361	2682.40	2223.13	1217.07	2.8050	0.5987	2.8750	0.121	3.959
152500	1332662	2682.84	2223.17	1217.32	2.7280	0.5143	2.8000	0.026	3.919
153000	1334959	2683.30	2223.63	1217.57	2.6510	0.4303	2.7250	0.001	3.879
153500	1337252	2683.78	2223.70	1217.84	2.5740	0.3467	2.6500	0.000	3.839
154000	1339541	2684.27	2224.00	1218.11	2.4970	0.2637	2.5750	0.000	3.799
154500	1341826	2684.79	2225.12	1218.60	2.4200	0.1813	2.5000	0.000	3.759
155000	1344107	2685.32	2225.65	1219.70	2.3430	0.0997	2.4250	0.000	3.719
155500	1346384	2685.80	2226.21	1219.61	2.2660	0.0183	2.3500	0.000	3.679
156000	1348657	2686.35	2226.78	1219.32	2.1890	0.0000	2.2750	0.000	3.639
156500	1350926	2686.97	2227.36	1219.64	2.1120	0.0000	2.2000	0.000	3.599
157000	1353191	2687.67	2228.00	1220.00	2.0350	0.0000	2.1250	0.000	3.559
157500	1355452	2688.30	2228.63	1220.35	2.0580	0.0000	2.0500	0.000	3.519
158000	1357709	2688.96	2229.29	1220.72	2.0810	0.0000	1.9750	0.000	3.479
158500	1360000	2689.64	2229.97	1221.09	2.1040	0.0000	1.9000	0.000	3.439
159000	1362287	2690.34	2230.67	1221.48	2.1270	0.0000	1.8250	0.000	3.399
159500	1364569	2691.06	2231.39	1221.88	2.1500	0.0000	1.7500	0.000	3.359
160000	1366846	2691.80	2232.13	1222.30	2.1730	0.0000	1.6750	0.000	3.319
160500	1369119	2692.57	2232.90	1222.72	2.1960	0.0000	1.6000	0.000	3.279
161000	1371387	2693.35	2233.68	1223.16	2.2190	0.0000	1.5250	0.000	3.239
161500	1373650	2694.14	2234.49	1223.60	2.2420	0.0000	1.4500	0.000	3.199
162000	1375908	2694.99	2235.32	1224.07	2.2650	0.0000	1.3750	0.000	3.159
162500	1378161	2695.84	2236.17	1224.54	2.2880	0.0000	1.3000	0.000	3.119
163000	1380409	2696.71	2237.04	1225.02	2.3110	0.0000	1.2250	0.000	3.079
163500	1382652	2697.61	2237.94	1225.52	2.3340	0.0000	1.1500	0.000	3.039
164000	1384890	2698.52	2238.85	1226.03	2.3570	0.0000	1.0750	0.000	3.000
164500	1387123	2699.46	2239.79	1226.57	2.3800	0.0000	1.0000	0.000	2.960
165000	1389351	2700.42	2240.75	1227.13	2.4030	0.0000	0.9250	0.000	2.920
165500	1391574	2701.40	2241.73	1227.70	2.4260	0.0000	0.8500	0.000	2.880
166000	1393791	2702.40	2242.73	1228.28	2.4490	0.0000	0.7750	0.000	2.840
166500	1396003	2703.42	2243.75	1228.87	2.4720	0.0000	0.7000	0.000	2.800
167000	1398210	2704.46	2244.79	1229.47	2.4950	0.0000	0.6250	0.000	2.760
167500	1400412	2705.51	2245.84	1230.08	2.5180	0.0000	0.5500	0.000	2.720
168000	1402609	2706.58	2246.91	1230.70	2.5410	0.0000	0.4750	0.000	2.680
168500	1404801	2707.66	2247.99	1231.33	2.5640	0.0000	0.4000	0.000	2.640
169000	1406988	2708.76	2249.08	1231.97	2.5870	0.0000	0.3250	0.000	2.600
169500	1409170	2709.87	2250.18	1232.62	2.6100	0.0000	0.2500	0.000	2.560
170000	1411347	2710.99	2251.29	1233.28	2.6330	0.0000	0.1750	0.000	2.520
170500	1413519	2712.12	2252.41	1233.95	2.6560	0.0000	0.1000	0.000	2.480
171000	1415686	2713.26	2253.54	1234.63	2.6790	0.0000	0.0250	0.000	2.440
171500	1417848	2714.41	2254.68	1235.32	2.7020	0.0000	0.0000	0.000	2.400

TABLE IX — Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, m. Hg	$\frac{P}{P_0}$	$\rho, \text{lb ft}^{-3}$	$\frac{\rho}{\rho_0}$
170000	1571022	2691.50	2233.65	1229.80	0.0001	2.6010	-12	7.016	-12
170500	1576091	2691.04	2233.37	1229.60	0.0007	2.5503	-12	7.005	-12
171000	1581207	2690.57	2233.12	1229.45	0.0044	2.5000	-12	7.000	-12
171500	1586364	2690.10	2232.90	1229.32	0.0122	2.4504	-12	7.000	-12
172000	1591560	2689.62	2232.70	1229.21	0.0199	2.4014	-12	7.000	-12
172500	1596797	2689.15	2232.53	1229.12	0.0276	2.3529	-12	7.000	-12
173000	1602074	2688.67	2232.39	1229.03	0.0353	2.3049	-12	7.000	-12
173500	1607391	2688.19	2232.25	1228.95	0.0430	2.2574	-12	7.000	-12
174000	1612748	2687.71	2232.14	1228.87	0.0507	2.2104	-12	7.000	-12
174500	1618145	2687.23	2232.04	1228.80	0.0584	2.1639	-12	7.000	-12
175000	1623582	2686.75	2231.95	1228.73	0.0661	2.1179	-12	7.000	-12
175500	1629059	2686.27	2231.87	1228.66	0.0738	2.0724	-12	7.000	-12
176000	1634576	2685.79	2231.79	1228.59	0.0815	2.0274	-12	7.000	-12
176500	1640133	2685.31	2231.72	1228.52	0.0892	1.9829	-12	7.000	-12
177000	1645730	2684.83	2231.65	1228.45	0.0969	1.9389	-12	7.000	-12
177500	1651367	2684.35	2231.58	1228.38	0.1046	1.8954	-12	7.000	-12
178000	1657044	2683.87	2231.51	1228.31	0.1123	1.8524	-12	7.000	-12
178500	1662761	2683.39	2231.44	1228.24	0.1200	1.8099	-12	7.000	-12
179000	1668518	2682.91	2231.37	1228.17	0.1277	1.7679	-12	7.000	-12
179500	1674315	2682.43	2231.30	1228.10	0.1354	1.7264	-12	7.000	-12
180000	1680152	2681.95	2231.23	1228.03	0.1431	1.6854	-12	7.000	-12
180500	1686029	2681.47	2231.16	1227.96	0.1508	1.6449	-12	7.000	-12
181000	1691946	2680.99	2231.09	1227.89	0.1585	1.6049	-12	7.000	-12
181500	1697903	2680.51	2231.02	1227.82	0.1662	1.5654	-12	7.000	-12
182000	1703899	2680.03	2230.95	1227.75	0.1739	1.5264	-12	7.000	-12
182500	1709936	2679.55	2230.88	1227.68	0.1816	1.4879	-12	7.000	-12
183000	1716013	2679.07	2230.81	1227.61	0.1893	1.4499	-12	7.000	-12
183500	1722130	2678.59	2230.74	1227.54	0.1970	1.4124	-12	7.000	-12
184000	1728287	2678.11	2230.67	1227.47	0.2047	1.3754	-12	7.000	-12
184500	1734484	2677.63	2230.60	1227.40	0.2124	1.3389	-12	7.000	-12
185000	1740721	2677.15	2230.53	1227.33	0.2201	1.3029	-12	7.000	-12
185500	1747008	2676.67	2230.46	1227.26	0.2278	1.2674	-12	7.000	-12
186000	1753345	2676.19	2230.39	1227.19	0.2355	1.2324	-12	7.000	-12
186500	1759732	2675.71	2230.32	1227.12	0.2432	1.1979	-12	7.000	-12
187000	1766169	2675.23	2230.25	1227.05	0.2509	1.1639	-12	7.000	-12
187500	1772656	2674.75	2230.18	1226.98	0.2586	1.1304	-12	7.000	-12
188000	1779193	2674.27	2230.11	1226.91	0.2663	1.0974	-12	7.000	-12
188500	1785780	2673.79	2230.04	1226.84	0.2740	1.0649	-12	7.000	-12
189000	1792417	2673.31	2229.97	1226.77	0.2817	1.0329	-12	7.000	-12
189500	1799104	2672.83	2229.90	1226.70	0.2894	1.0014	-12	7.000	-12
190000	1805841	2672.35	2229.83	1226.63	0.2971	0.9704	-12	7.000	-12
190500	1812628	2671.87	2229.76	1226.56	0.3048	0.9404	-12	7.000	-12
191000	1819465	2671.39	2229.69	1226.49	0.3125	0.9109	-12	7.000	-12
191500	1826352	2670.91	2229.62	1226.42	0.3202	0.8819	-12	7.000	-12
192000	1833289	2670.43	2229.55	1226.35	0.3279	0.8534	-12	7.000	-12
192500	1840276	2669.95	2229.48	1226.28	0.3356	0.8254	-12	7.000	-12
193000	1847313	2669.47	2229.41	1226.21	0.3433	0.7979	-12	7.000	-12
193500	1854400	2668.99	2229.34	1226.14	0.3510	0.7709	-12	7.000	-12
194000	1861537	2668.51	2229.27	1226.07	0.3587	0.7444	-12	7.000	-12
194500	1868724	2668.03	2229.20	1226.00	0.3664	0.7184	-12	7.000	-12
195000	1875961	2667.55	2229.13	1225.93	0.3741	0.6929	-12	7.000	-12
195500	1883248	2667.07	2229.06	1225.86	0.3818	0.6679	-12	7.000	-12
196000	1890585	2666.59	2228.99	1225.79	0.3895	0.6434	-12	7.000	-12
196500	1897972	2666.11	2228.92	1225.72	0.3972	0.6194	-12	7.000	-12
197000	1905409	2665.63	2228.85	1225.65	0.4049	0.5959	-12	7.000	-12
197500	1912896	2665.15	2228.78	1225.58	0.4126	0.5729	-12	7.000	-12
198000	1920433	2664.67	2228.71	1225.51	0.4203	0.5504	-12	7.000	-12
198500	1928020	2664.19	2228.64	1225.44	0.4280	0.5284	-12	7.000	-12
199000	1935657	2663.71	2228.57	1225.37	0.4357	0.5069	-12	7.000	-12
199500	1943344	2663.23	2228.50	1225.30	0.4434	0.4859	-12	7.000	-12
200000	1951081	2662.75	2228.43	1225.23	0.4511	0.4654	-12	7.000	-12
200500	1958868	2662.27	2228.36	1225.16	0.4588	0.4454	-12	7.000	-12
201000	1966705	2661.79	2228.29	1225.09	0.4665	0.4259	-12	7.000	-12
201500	1974592	2661.31	2228.22	1225.02	0.4742	0.4069	-12	7.000	-12
202000	1982529	2660.83	2228.15	1224.95	0.4819	0.3884	-12	7.000	-12
202500	1990516	2660.35	2228.08	1224.88	0.4896	0.3704	-12	7.000	-12
203000	1998553	2659.87	2228.01	1224.81	0.4973	0.3529	-12	7.000	-12
203500	2006640	2659.39	2227.94	1224.74	0.5050	0.3359	-12	7.000	-12
204000	2014777	2658.91	2227.87	1224.67	0.5127	0.3194	-12	7.000	-12
204500	2022964	2658.43	2227.80	1224.60	0.5204	0.3034	-12	7.000	-12
205000	2031201	2657.95	2227.73	1224.53	0.5281	0.2879	-12	7.000	-12
205500	2039488	2657.47	2227.66	1224.46	0.5358	0.2729	-12	7.000	-12
206000	2047825	2656.99	2227.59	1224.39	0.5435	0.2584	-12	7.000	-12
206500	2056212	2656.51	2227.52	1224.32	0.5512	0.2444	-12	7.000	-12
207000	2064649	2656.03	2227.45	1224.25	0.5589	0.2309	-12	7.000	-12
207500	2073136	2655.55	2227.38	1224.18	0.5666	0.2179	-12	7.000	-12
208000	2081673	2655.07	2227.31	1224.11	0.5743	0.2054	-12	7.000	-12
208500	2090260	2654.59	2227.24	1224.04	0.5820	0.1934	-12	7.000	-12
209000	2098897	2654.11	2227.17	1223.97	0.5897	0.1819	-12	7.000	-12
209500	2107584	2653.63	2227.10	1223.90	0.5974	0.1709	-12	7.000	-12
210000	2116321	2653.15	2227.03	1223.83	0.6051	0.1604	-12	7.000	-12
210500	2125108	2652.67	2226.96	1223.76	0.6128	0.1504	-12	7.000	-12
211000	2133945	2652.19	2226.89	1223.69	0.6205	0.1409	-12	7.000	-12
211500	2142832	2651.71	2226.82	1223.62	0.6282	0.1319	-12	7.000	-12
212000	2151769	2651.23	2226.75	1223.55	0.6359	0.1234	-12	7.000	-12
212500	2160756	2650.75	2226.68	1223.48	0.6436	0.1154	-12	7.000	-12
213000	2169793	2650.27	2226.61	1223.41	0.6513	0.1079	-12	7.000	-12
213500	2178880	2649.79	2226.54	1223.34	0.6590	0.1009	-12	7.000	-12
214000	2188017	2649.31	2226.47	1223.27	0.6667	0.0944	-12	7.000	-12
214500	2197204	2648.83	2226.40	1223.20	0.6744	0.0884	-12	7.000	-12
215000	2206441	2648.35	2226.33	1223.13	0.6821	0.0829	-12	7.000	-12
215500	2215728	2647.87	2226.26	1223.06	0.6898	0.0779	-12	7.000	-12
216000	2225065	2647.39	2226.19	1222.99	0.6975	0.0734	-12	7.000	-12
216500	2234452	2646.91	2226.12	1222.92	0.7052	0.0694	-12	7.000	-12
217000	2243889	2646.43	2226.05	1222.85	0.7129	0.0659	-12	7.000	-12
217500	2253376	2645.95	2225.98	1222.78	0.7206	0.0629	-12	7.000	-12
218000	2262913	2645.47	2225.91	1222.71	0.7283	0.0604	-12	7.000	-12
218500	2272500	2644.99	2225.84	1222.64	0.7360	0.0584	-12	7.000	-12
219000	2282137	2644.51	2225.77	1222.57	0.7437	0.0564	-12	7.000	-12

TABLE IX - Concluded
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Temperature			Pressure			Density	
Z, ft	H, ft	T, °R	t, °F	t, °C	P, mb	P, in. Hg	$\frac{P}{P_0}$	ρ , lb ft ⁻³	$\frac{\rho}{\rho_0}$
2200000	1909970	2713.52	2253.03	1234.36	1.6177 - 9	3.7756 -11	1.5960 -12	1.510 -10	1.724 -13
2210000	1909152	2713.67	2253.00	1234.45	1.5684	3.6257	1.5459	1.275	1.667
2220000	1908327	2713.80	2253.13	1234.52	1.5176	3.4800	1.4975	1.234	1.615
2230000	1907487	2713.90	2253.13	1234.57	1.4699	3.3407	1.4507	1.193	1.567
2240000	1906643	2713.97	2253.50	1234.51	1.4251	3.2053	1.4050	1.155	1.518
2250000	1905793	2714.01	2254.84	1234.61	1.3797	3.0724	1.3617	1.118	1.465
2260000	1904936	2714.03	2256.35	1234.64	1.3369	2.9470	1.3194	1.081	1.416
2270000	1904071	2713.99	2258.32	1234.68	1.2950	2.8254	1.2765	1.047	1.369
2280000	1903199	2713.92	2259.25	1234.58	1.2554	2.7071	1.2360	1.015	1.325
2290000	1902321	2713.80	2259.13	1234.52	1.2160	2.5920	1.2007	0.985	1.282
2300000	1901435	2713.65	2255.00	1234.51	1.1781 - 9	2.4810 -11	1.1637 -12	0.951 -10	1.241 -13
2310000	1900543	2713.44	2253.77	1234.32	1.1429	2.3749	1.1279	0.100	1.201
2320000	1900643	2713.20	2253.53	1234.10	1.1070	2.2713	1.0953	0.004	1.163

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Table V

**ACCELERATION DUE TO GRAVITY, SPECIFIC WEIGHT, PRESSURE SCALE
HEIGHT, NUMBER DENSITY, PARTICLE SPEED, COLLISION FREQUENCY,
MEAN FREE PATH, AND MOLECULAR WEIGHT**

English Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE II
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
-14200	-14207	32.225	3.6934 + 0	30763.	1.1395 +24	1588.8	1.1535 +10	1.3774 - 7	28.964
-14400	-14387	32.225	3.6887	30764.	1.1365	1588.3	1.1501	1.3810	28.964
-14600	-14287	32.225	3.6729	30724.	1.1335	1587.9	1.1467	1.3847	28.964
-14800	-14187	32.225	3.6487	30767.	1.1304	1587.4	1.1434	1.3883	28.964
-14100	-14089	32.225	3.6525	30688.	1.1274	1586.9	1.1400	1.3920	28.964
-14000	-13988	32.223	3.6423 + 0	30469.	1.1246 +24	1586.4	1.1367 +16	1.3956 - 7	28.964
-13900	-13988	32.223	3.6322	30451.	1.1217	1585.9	1.1333	1.3993	28.964
-13800	-13988	32.223	3.6220	30432.	1.1187	1585.4	1.1300	1.4030	28.964
-13700	-13888	32.223	3.6119	30413.	1.1157	1584.9	1.1267	1.4067	28.964
-13600	-13888	32.223	3.6018	30395.	1.1128	1584.4	1.1233	1.4105	28.964
-13500	-13888	32.222	3.5917	30376.	1.1099	1583.9	1.1200	1.4142	28.964
-13400	-13888	32.222	3.5817	30357.	1.1069	1583.4	1.1167	1.4179	28.964
-13300	-13888	32.221	3.5716	30338.	1.1040	1582.9	1.1134	1.4217	28.964
-13200	-13888	32.221	3.5616	30320.	1.1011	1582.4	1.1101	1.4255	28.964
-13100	-13888	32.221	3.5516	30301.	1.0982	1582.0	1.1068	1.4293	28.964
-13000	-14089	32.220	3.5417 + 0	30482.	1.0953 +24	1581.5	1.1034 +10	1.4330 - 7	28.964
-14000	-14089	32.220	3.5317	30464.	1.0924	1581.0	1.1003	1.4369	28.964
-14000	-14089	32.220	3.5218	30445.	1.0895	1580.5	1.0970	1.4407	28.964
-14000	-14089	32.219	3.5119	30426.	1.0866	1580.0	1.0938	1.4445	28.964
-14000	-14089	32.219	3.5020	30408.	1.0837	1579.5	1.0905	1.4484	28.964
-14000	-14089	32.219	3.4921	30389.	1.0808	1579.0	1.0873	1.4522	28.964
-14000	-14089	32.218	3.4823	30370.	1.0779	1578.5	1.0841	1.4561	28.964
-14000	-14089	32.218	3.4724	30351.	1.0751	1578.0	1.0809	1.4600	28.964
-14000	-14089	32.218	3.4626	30333.	1.0722	1577.5	1.0776	1.4639	28.964
-14000	-14089	32.218	3.4528	30314.	1.0694	1577.0	1.0744	1.4678	28.964
-14000	-13991	32.217	3.4431 + 0	30295.	1.0665 +24	1576.5	1.0712 +10	1.4717 - 7	28.964
-13900	-13891	32.217	3.4333	30277.	1.0637	1576.0	1.0680	1.4754	28.964
-13800	-13791	32.217	3.4234	30258.	1.0608	1575.5	1.0649	1.4794	28.964
-13700	-13691	32.216	3.4139	30239.	1.0580	1575.0	1.0617	1.4835	28.964
-13600	-13591	32.216	3.4042	30220.	1.0552	1574.5	1.0585	1.4875	28.964
-13500	-13491	32.216	3.3945	30202.	1.0523	1574.1	1.0554	1.4915	28.964
-13400	-13391	32.215	3.3849	30183.	1.0495	1573.6	1.0522	1.4955	28.964
-13300	-13292	32.215	3.3753	30164.	1.0467	1573.1	1.0491	1.4995	28.964
-13200	-13192	32.215	3.3656	30146.	1.0439	1572.6	1.0459	1.5035	28.964
-13100	-13092	32.214	3.3561	30127.	1.0411	1572.1	1.0428	1.5076	28.964
-13000	-12992	32.214	3.3465 + 0	30108.	1.0383 +24	1571.6	1.0397 +10	1.5116 - 7	28.964
-12900	-12892	32.214	3.3369	30089.	1.0355	1571.1	1.0365	1.5157	28.964
-12800	-12792	32.214	3.3274	30071.	1.0328	1570.6	1.0334	1.5198	28.964
-12700	-12692	32.213	3.3179	30052.	1.0300	1570.1	1.0303	1.5238	28.964
-12600	-12592	32.213	3.3084	30033.	1.0272	1569.6	1.0272	1.5280	28.964
-12500	-12493	32.213	3.2989	30015.	1.0245	1569.1	1.0241	1.5321	28.964
-12400	-12393	32.212	3.2895	29996.	1.0217	1568.6	1.0211	1.5362	28.964
-12300	-12293	32.212	3.2800	29977.	1.0189	1568.1	1.0180	1.5404	28.964
-12200	-12193	32.212	3.2706	29958.	1.0162	1567.6	1.0149	1.5445	28.964
-12100	-12093	32.211	3.2612	29940.	1.0135	1567.1	1.0119	1.5487	28.964
-12000	-11993	32.211	3.2519 + 0	29921.	1.0107 +24	1566.6	1.0088 +10	1.5529 - 7	28.964
-11900	-11893	32.211	3.2425	29902.	1.0080	1566.1	1.0053	1.5571	28.964
-11800	-11793	32.210	3.2332	29884.	1.0053	1565.6	1.0027	1.5613	28.964
-11700	-11693	32.210	3.2237	29865.	1.0026	1565.1	0.9997 + 9	1.5656	28.964
-11600	-11594	32.210	3.2144	29846.	0.9998 +23	1564.6	0.9969	1.5698	28.964
-11500	-11494	32.210	3.2053	29827.	0.9971	1564.1	0.9947	1.5741	28.964
-11400	-11394	32.209	3.1960	29809.	0.9943	1563.6	0.9924	1.5784	28.964
-11300	-11294	32.209	3.1868	29790.	0.9915	1563.1	0.9896	1.5826	28.964
-11200	-11194	32.209	3.1776	29771.	0.9888	1562.6	0.9867	1.5869	28.964
-11100	-11094	32.208	3.1684	29753.	0.9861	1562.1	0.9840	1.5913	28.964
-11000	-10994	32.208	3.1592 + 0	29734.	0.9834 +23	1561.6	0.9811 + 9	1.5956 - 7	28.964
-10900	-10894	32.208	3.1500	29715.	0.9807	1561.1	0.9787	1.6000	28.964
-10800	-10794	32.207	3.1409	29696.	0.9780	1560.6	0.9767	1.6043	28.964
-10700	-10695	32.207	3.1318	29678.	0.9754	1560.1	0.9741	1.6087	28.964
-10600	-10595	32.207	3.1227	29659.	0.9728	1559.6	0.9715	1.6131	28.964
-10500	-10495	32.206	3.1136	29640.	0.9702	1559.1	0.9689	1.6175	28.964
-10400	-10395	32.206	3.1045	29621.	0.9676	1558.6	0.9663	1.6219	28.964
-10300	-10295	32.206	3.0955	29603.	0.9650	1558.1	0.9637	1.6263	28.964
-10200	-10195	32.206	3.0864	29584.	0.9624	1557.6	0.9611	1.6308	28.964
-10100	-10095	32.205	3.0774	29565.	0.9598	1557.1	0.9585	1.6353	28.964
-10000	-9995	32.205	3.0684 + 0	29547.	0.9572 +23	1556.6	0.9549 + 9	1.6397 - 7	28.964
-9900	-9895	32.205	3.0593	29528.	0.9546	1556.1	0.9533	1.6442	28.964
-9800	-9795	32.204	3.0503	29509.	0.9520	1555.6	0.9507	1.6487	28.964
-9700	-9695	32.204	3.0414	29490.	0.9494	1555.1	0.9481	1.6533	28.964
-9600	-9595	32.204	3.0324	29472.	0.9468	1554.6	0.9455	1.6578	28.964
-9500	-9495	32.203	3.0235	29453.	0.9442	1554.1	0.9429	1.6624	28.964
-9400	-9396	32.203	3.0146	29434.	0.9416	1553.6	0.9403	1.6670	28.964
-9300	-9296	32.203	3.0056	29415.	0.9390	1553.1	0.9377	1.6716	28.964
-9200	-9196	32.202	3.0067	29397.	0.9364	1552.6	0.9351	1.6762	28.964
-9100	-9096	32.202	3.0078	29378.	0.9338	1552.1	0.9325	1.6808	28.964

TABLE V

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight ω , lb/ft ³ sec ²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
-16500	-16513	32.225	3.8917 + 0	30765.	1.1399 +24	1568.9	1.1539 +10	1.3769 - 7	28.964
-16400	-16413	32.225	3.8915	30767.	1.1369	1568.6	1.1506	1.3806	28.964
-16300	-16313	32.224	3.8762	30728.	1.1339	1567.9	1.1472	1.3842	28.964
-16200	-16213	32.224	3.8610	30709.	1.1309	1567.4	1.1438	1.3879	28.964
-16100	-16112	32.224	3.8538	30690.	1.1280	1566.9	1.1404	1.3915	28.964
-16000	-16012	32.223	3.8416 + 0	30672.	1.1250 +24	1566.4	1.1371 +10	1.3952 - 7	28.964
-15900	-15912	32.223	3.8336	30653.	1.1220	1566.0	1.1337	1.3989	28.964
-15800	-15812	32.223	3.8232	30634.	1.1190	1565.5	1.1304	1.4026	28.964
-15700	-15712	32.223	3.8131	30615.	1.1161	1565.0	1.1270	1.4063	28.964
-15600	-15612	32.222	3.8039	30597.	1.1131	1564.5	1.1237	1.4100	28.964
-15500	-15512	32.222	3.7929	30578.	1.1102	1564.0	1.1204	1.4139	28.964
-15400	-15411	32.222	3.7828	30559.	1.1073	1563.5	1.1171	1.4175	28.964
-15300	-15311	32.221	3.7728	30541.	1.1043	1563.0	1.1138	1.4213	28.964
-15200	-15211	32.221	3.7627	30522.	1.1014	1562.5	1.1105	1.4251	28.964
-15100	-15111	32.221	3.7527	30503.	1.0985	1562.0	1.1072	1.4288	28.964
-15000	-15011	32.220	3.7428 + 0	30484.	1.0955 +24	1561.5	1.1039 +10	1.4326 - 7	28.964
-14900	-14911	32.220	3.7328	30466.	1.0927	1561.0	1.1004	1.4364	28.964
-14800	-14811	32.220	3.7228	30447.	1.0899	1560.5	1.0974	1.4403	28.964
-14700	-14710	32.219	3.7129	30428.	1.0869	1560.0	1.0941	1.4441	28.964
-14600	-14610	32.219	3.7030	30409.	1.0840	1559.5	1.0909	1.4480	28.964
-14500	-14510	32.219	3.6931	30391.	1.0811	1559.0	1.0874	1.4518	28.964
-14400	-14410	32.219	3.6833	30372.	1.0782	1558.5	1.0844	1.4557	28.964
-14300	-14310	32.218	3.6734	30353.	1.0754	1558.1	1.0812	1.4594	28.964
-14200	-14210	32.218	3.6636	30334.	1.0725	1557.6	1.0780	1.4633	28.964
-14100	-14110	32.218	3.6538	30316.	1.0696	1557.1	1.0747	1.4674	28.964
-14000	-14009	32.217	3.6440 + 0	30297.	1.0668 +24	1556.6	1.0715 +10	1.4713 - 7	28.964
-13900	-13909	32.217	3.6342	30278.	1.0639	1556.1	1.0683	1.4753	28.964
-13800	-13809	32.217	3.6245	30260.	1.0611	1555.6	1.0652	1.4792	28.964
-13700	-13709	32.216	3.6148	30241.	1.0582	1555.1	1.0620	1.4832	28.964
-13600	-13609	32.216	3.6051	30222.	1.0554	1554.6	1.0588	1.4872	28.964
-13500	-13509	32.216	3.5954	30203.	1.0526	1554.1	1.0556	1.4911	28.964
-13400	-13409	32.215	3.5857	30185.	1.0498	1553.6	1.0525	1.4952	28.964
-13300	-13308	32.215	3.5761	30166.	1.0470	1553.1	1.0493	1.4992	28.964
-13200	-13208	32.215	3.5664	30147.	1.0442	1552.6	1.0462	1.5032	28.964
-13100	-13108	32.215	3.5568	30128.	1.0413	1552.1	1.0430	1.5072	28.964
-13000	-13008	32.214	3.5473 + 0	30110.	1.0384 +24	1551.6	1.0399 +10	1.5113 - 7	28.964
-12900	-12908	32.214	3.5377	30091.	1.0358	1551.1	1.0368	1.5154	28.964
-12800	-12808	32.214	3.5282	30072.	1.0330	1550.6	1.0337	1.5195	28.964
-12700	-12708	32.213	3.5186	30053.	1.0302	1550.1	1.0304	1.5236	28.964
-12600	-12608	32.213	3.5091	30034.	1.0274	1549.6	1.0275	1.5277	28.964
-12500	-12507	32.213	3.4996	30016.	1.0247	1549.1	1.0244	1.5318	28.964
-12400	-12407	32.212	3.4902	29997.	1.0219	1548.6	1.0213	1.5359	28.964
-12300	-12307	32.212	3.4807	29978.	1.0191	1548.1	1.0182	1.5401	28.964
-12200	-12207	32.212	3.4713	29960.	1.0164	1547.6	1.0151	1.5443	28.964
-12100	-12107	32.211	3.4619	29941.	1.0136	1547.1	1.0121	1.5484	28.964
-12000	-12007	32.211	3.4525 + 0	29922.	1.0109 +24	1546.6	1.0090 +10	1.5526 - 7	28.964
-11900	-11907	32.211	3.4431	29903.	1.0082	1546.1	1.0060	1.5568	28.964
-11800	-11807	32.210	3.4338	29885.	1.0055	1545.6	1.0029	1.5611	28.964
-11700	-11707	32.210	3.4245	29866.	1.0027	1545.1	0.9991 + 9	1.5653	28.964
-11600	-11606	32.210	3.4152	29847.	1.0000	1544.6	0.9968	1.5695	28.964
-11500	-11506	32.210	3.4059	29829.	0.99730 +23	1544.2	0.9936	1.5738	28.964
-11400	-11406	32.209	3.3964	29810.	0.99460	1543.7	0.9903	1.5781	28.964
-11300	-11306	32.209	3.3870	29791.	0.99190	1543.2	0.9873	1.5824	28.964
-11200	-11206	32.209	3.3776	29772.	0.98921	1542.7	0.9845	1.5867	28.964
-11100	-11106	32.208	3.3681	29754.	0.98652	1542.2	0.9818	1.5910	28.964
-11000	-11006	32.208	3.3587 + 0	29735.	0.98384 +23	1541.7	0.9788 + 9	1.5954 - 7	28.964
-10900	-10906	32.208	3.3504	29716.	0.98114	1541.2	0.9759	1.5997	28.964
-10800	-10806	32.207	3.3414	29697.	0.97849	1540.7	0.9729	1.6041	28.964
-10700	-10705	32.207	3.3323	29679.	0.97582	1540.2	0.9697	1.6085	28.964
-10600	-10605	32.207	3.3232	29660.	0.97314	1539.7	0.9670	1.6128	28.964
-10500	-10505	32.206	3.3141	29641.	0.97051	1539.2	0.9640	1.6173	28.964
-10400	-10405	32.206	3.3050	29622.	0.96784	1538.7	0.9613	1.6217	28.964
-10300	-10305	32.206	3.2959	29604.	0.96522	1538.2	0.9582	1.6261	28.964
-10200	-10205	32.206	3.2869	29585.	0.96258	1537.7	0.9552	1.6304	28.964
-10100	-10105	32.205	3.2779	29566.	0.95995	1537.2	0.9524	1.6350	28.964
-10000	-10005	32.205	3.2689 + 0	29547.	0.95732 +23	1536.7	0.9496 + 9	1.6395 - 7	28.964
-9900	-9905	32.205	3.2599	29529.	0.95470	1536.1	0.9469	1.6440	28.964
-9800	-9805	32.204	3.2509	29510.	0.95209	1535.6	0.9443	1.6484	28.964
-9700	-9705	32.204	3.2420	29491.	0.94948	1535.1	0.9417	1.6531	28.964
-9600	-9604	32.204	3.2331	29472.	0.94687	1534.6	0.9390	1.6576	28.964
-9500	-9504	32.203	3.2242	29453.	0.94428	1534.1	0.9360	1.6622	28.964
-9400	-9404	32.203	3.2153	29435.	0.94168	1533.6	0.9333	1.6668	28.964
-9300	-9304	32.203	3.2064	29416.	0.93905	1533.1	0.9307	1.6714	28.964
-9200	-9204	32.202	3.19	29398.	0.93651	1532.6	0.9281	1.6760	28.964
-9100	-9104	32.202	3.1807	29379.	0.93398	1532.1	0.9256	1.6806	28.964

TABLE X.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
-6600	-6994	32.202	3.1794 + 0	29354.	9.3124 +23	1531.4	9.2041 + 9	1.6854 - 7	28.964
-6500	-6894	32.202	3.1794	29361.	9.2870	1531.1	9.1778	1.6901	28.964
-6400	-6794	32.201	3.1620	29322.	9.2614	1530.4	9.1495	1.6947	28.964
-6300	-6694	32.201	3.1533	29303.	9.2359	1530.1	9.1214	1.6994	28.964
-6200	-6594	32.201	3.1446	29264.	9.2104	1529.6	9.0933	1.7041	28.964
-6100	-6494	32.200	3.1359	29244.	9.1850	1529.1	9.0652	1.7088	28.964
-6000	-6394	32.200	3.1272	29207.	9.1594	1528.6	9.0373	1.7134	28.964
-5900	-6294	32.200	3.1185	29228.	9.1343	1528.1	9.0094	1.7181	28.964
-5800	-6194	32.199	3.1098	29209.	9.1091	1527.6	8.9815	1.7228	28.964
-5700	-6094	32.199	3.1012	29191.	9.0839	1527.1	8.9536	1.7279	28.964
-5600	-5994	32.199	3.0924 + 0	29172.	9.0587 +23	1526.6	8.9261 + 9	1.7327 - 7	28.964
-5500	-5894	32.198	3.0732	29153.	9.0334	1526.1	8.8984	1.7375	28.964
-5400	-5794	32.198	3.0754	29135.	9.0084	1525.6	8.8709	1.7423	28.964
-5300	-5694	32.198	3.0668	29116.	8.9834	1525.1	8.8434	1.7472	28.964
-5200	-5594	32.198	3.0583	29097.	8.9584	1524.6	8.8159	1.7520	28.964
-5100	-5494	32.197	3.0498	29078.	8.9337	1524.1	8.7884	1.7569	28.964
-5000	-5394	32.197	3.0413	29060.	8.9089	1523.6	8.7613	1.7618	28.964
-4900	-5294	32.197	3.0328	29041.	8.8841	1523.0	8.7340	1.7667	28.964
-4800	-5194	32.196	3.0243	29022.	8.8594	1522.5	8.7069	1.7714	28.964
-4700	-5094	32.196	3.0159	29003.	8.8347	1522.0	8.6798	1.7764	28.964
-4600	-4994	32.196	3.0074 + 0	28985.	8.8101 +23	1521.5	8.6528 + 9	1.7814 - 7	28.964
-4500	-4894	32.195	2.9990	28966.	8.7855	1521.0	8.6258	1.7865	28.964
-4400	-4794	32.195	2.9904	28947.	8.7610	1520.5	8.5989	1.7915	28.964
-4300	-4694	32.195	2.9822	28928.	8.7364	1520.0	8.5721	1.7965	28.964
-4200	-4594	32.194	2.9739	28910.	8.7121	1519.5	8.5453	1.8014	28.964
-4100	-4494	32.194	2.9655	28891.	8.6878	1519.0	8.5184	1.8064	28.964
-4000	-4394	32.194	2.9572	28872.	8.6635	1518.5	8.4920	1.8117	28.964
-3900	-4294	32.193	2.9489	28853.	8.6392	1518.0	8.4654	1.8168	28.964
-3800	-4194	32.193	2.9404	28835.	8.6150	1517.5	8.4389	1.8219	28.964
-3700	-4094	32.193	2.9323	28816.	8.5909	1517.0	8.4125	1.8270	28.964
-3600	-3994	32.193	2.9241 + 0	28797.	8.5668 +23	1516.5	8.3861 + 9	1.8322 - 7	28.964
-3500	-3894	32.192	2.9158	28779.	8.5427	1516.0	8.3594	1.8373	28.964
-3400	-3794	32.192	2.9076	28760.	8.5187	1515.5	8.3334	1.8425	28.964
-3300	-3694	32.192	2.8994	28741.	8.4948	1515.0	8.3074	1.8477	28.964
-3200	-3594	32.191	2.8912	28722.	8.4709	1514.5	8.2813	1.8529	28.964
-3100	-3494	32.191	2.8831	28704.	8.4470	1514.0	8.2553	1.8581	28.964
-3000	-3394	32.191	2.8749	28685.	8.4232	1513.5	8.2293	1.8634	28.964
-2900	-3294	32.190	2.8668	28666.	8.3995	1513.0	8.2034	1.8686	28.964
-2800	-3194	32.190	2.8587	28647.	8.3758	1512.5	8.1775	1.8739	28.964
-2700	-3094	32.190	2.8506	28629.	8.3522	1512.0	8.1517	1.8792	28.964
-2600	-2994	32.189	2.8425 + 0	28610.	8.3284 +23	1511.4	8.1260 + 9	1.8844 - 7	28.964
-2500	-2894	32.189	2.8345	28591.	8.3051	1510.9	8.1003	1.8899	28.964
-2400	-2794	32.189	2.8264	28572.	8.2816	1510.4	8.0746	1.8953	28.964
-2300	-2694	32.189	2.8184	28554.	8.2581	1509.9	8.0489	1.9006	28.964
-2200	-2594	32.188	2.8104	28535.	8.2346	1509.4	8.0238	1.9060	28.964
-2100	-2494	32.188	2.8024	28516.	8.2114	1508.9	8.0000	1.9114	28.964
-2000	-2394	32.188	2.7944	28497.	8.1881	1508.4	7.9750	1.9168	28.964
-1900	-2294	32.187	2.7865	28479.	8.1649	1507.9	7.9507	1.9223	28.964
-1800	-2194	32.187	2.7785	28460.	8.1417	1507.4	7.9255	1.9278	28.964
-1700	-2094	32.187	2.7704	28441.	8.1186	1506.9	7.8994	1.9333	28.964
-1600	-1994	32.186	2.7627 + 0	28422.	8.0955 +23	1506.3	7.8723 + 9	1.9388 - 7	28.964
-1500	-1894	32.186	2.7548	28404.	8.0725	1505.8	7.8473	1.9445	28.964
-1400	-1794	32.186	2.7469	28385.	8.0495	1505.3	7.8223	1.9499	28.964
-1300	-1694	32.185	2.7391	28366.	8.0268	1504.8	7.7974	1.9555	28.964
-1200	-1594	32.185	2.7313	28347.	8.0037	1504.3	7.7724	1.9610	28.964
-1100	-1494	32.185	2.7234	28329.	7.9809	1503.7	7.7478	1.9667	28.964
-1000	-1394	32.185	2.7156	28310.	7.9581	1503.2	7.7231	1.9723	28.964
-900	-1294	32.184	2.7079	28291.	7.9354	1502.7	7.6985	1.9779	28.964
-800	-1194	32.184	2.7001	28272.	7.9127	1502.2	7.6739	1.9836	28.964
-700	-1094	32.184	2.6924	28254.	7.8900	1501.7	7.6494	1.9893	28.964
-600	-994	32.183	2.6846 + 0	28235.	7.8675 +23	1501.2	7.6249 + 9	1.9950 - 7	28.964
-500	-894	32.183	2.6769	28216.	7.8449	1500.7	7.6005	2.0007	28.964
-400	-794	32.183	2.6692	28197.	7.8225	1500.1	7.5762	2.0065	28.964
-300	-694	32.182	2.6615	28179.	7.8000	1500.6	7.5519	2.0123	28.964
-200	-594	32.182	2.6539	28160.	7.7774	1500.1	7.5277	2.0180	28.964
-100	-494	32.182	2.6462	28141.	7.7553	1500.6	7.5035	2.0239	28.964
0	-394	32.181	2.6384	28122.	7.7330	1500.1	7.4794	2.0297	28.964
100	-294	32.181	2.6310	28104.	7.7108	1500.6	7.4554	2.0355	28.964
200	-194	32.181	2.6234	28085.	7.6886	1500.1	7.4314	2.0414	28.964
300	-94	32.181	2.6158	28066.	7.6665	1500.6	7.4075	2.0473	28.964
400	6	32.180	2.6082 + 0	28047.	7.6444 +23	1500.0	7.3837 + 9	2.0532 - 7	28.964
500	106	32.180	2.6007	28029.	7.6223	1500.5	7.3599	2.0592	28.964
600	206	32.180	2.5932	28010.	7.6003	1500.0	7.3362	2.0651	28.964
700	306	32.179	2.5857	27991.	7.5784	1500.5	7.3125	2.0711	28.964
800	406	32.179	2.5782	27972.	7.5565	1500.0	7.2889	2.0771	28.964
900	506	32.179	2.5707	27954.	7.5346	1500.5	7.2654	2.0831	28.964
1000	606	32.178	2.5632	27935.	7.5128	1500.0	7.2419	2.0892	28.964
1100	706	32.178	2.5558	27916.	7.4911	1500.5	7.2184	2.0952	28.964
1200	806	32.178	2.5483	27897.	7.4694	1500.0	7.1951	2.1013	28.964
1300	906	32.177	2.5409	27879.	7.4477	1500.5	7.1718	2.1074	28.964

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g, ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H _p , ft	Number density n, ft ⁻³	Particle speed V, ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L, ft	Molecular weight M
Z, ft	H, ft								
-9600	-9604	32.202	3.1799 + 0	29360.	9.3134 +23	1551.6	9.2072 + 9	1.6652 - 7	28.964
-9700	-9704	32.202	3.1711	29361.	9.2880	1551.1	9.1789	1.6699	28.964
-9800	-9804	32.201	3.1624	29323.	9.2624	1550.4	9.1504	1.6746	28.964
-9700	-9704	32.201	3.1536	29304.	9.2368	1550.1	9.1224	1.6792	28.964
-9600	-9604	32.201	3.1449	29285.	9.2113	1549.4	9.0943	1.6838	28.964
-9500	-9503	32.200	3.1362	29266.	9.1859	1549.1	9.0662	1.6887	28.964
-9400	-9403	32.200	3.1275	29248.	9.1605	1548.4	9.0382	1.6934	28.964
-9300	-9303	32.200	3.1188	29229.	9.1352	1548.1	9.0103	1.6982	28.964
-9200	-9203	32.199	3.1101	29210.	9.1099	1547.4	8.9824	1.7029	28.964
-9100	-9103	32.199	3.1015	29191.	9.0847	1547.1	8.9544	1.7077	28.964
-9000	-9003	32.199	3.0929 + 0	29173.	9.0595 +23	1546.4	8.9269 + 9	1.7323 - 7	28.964
-7900	-7903	32.198	3.0842	29154.	9.0344	1546.1	8.8992	1.7373	28.964
-7800	-7803	32.198	3.0757	29135.	9.0093	1545.4	8.8717	1.7422	28.964
-7700	-7703	32.198	3.0671	29116.	8.9843	1545.1	8.8441	1.7470	28.964
-7600	-7603	32.198	3.0585	29098.	8.9593	1544.4	8.8167	1.7519	28.964
-7500	-7503	32.197	3.0500	29079.	8.9344	1544.1	8.7893	1.7568	28.964
-7400	-7403	32.197	3.0415	29060.	8.9094	1543.4	8.7620	1.7617	28.964
-7300	-7303	32.197	3.0330	29041.	8.8845	1543.1	8.7347	1.7666	28.964
-7200	-7203	32.196	3.0245	29022.	8.8600	1542.4	8.7074	1.7715	28.964
-7100	-7103	32.196	3.0161	29004.	8.8353	1542.1	8.6804	1.7763	28.964
-7000	-7003	32.196	3.0074 + 0	28985.	8.8107 +23	1541.5	8.6534 + 9	1.7814 - 7	28.964
-6900	-6903	32.195	2.9992	28966.	8.7861	1541.0	8.6264	1.7864	28.964
-6800	-6803	32.195	2.9908	28948.	8.7616	1540.3	8.5995	1.7914	28.964
-6700	-6703	32.195	2.9826	28929.	8.7371	1540.0	8.5726	1.7964	28.964
-6600	-6603	32.194	2.9740	28910.	8.7127	1539.3	8.5459	1.8015	28.964
-6500	-6503	32.194	2.9657	28891.	8.6883	1539.0	8.5192	1.8065	28.964
-6400	-6403	32.194	2.9574	28873.	8.6640	1538.3	8.4925	1.8114	28.964
-6300	-6303	32.193	2.9491	28854.	8.6397	1538.0	8.4659	1.8167	28.964
-6200	-6203	32.193	2.9408	28835.	8.6155	1537.3	8.4394	1.8218	28.964
-6100	-6103	32.193	2.9325	28816.	8.5913	1537.0	8.4130	1.8269	28.964
-6000	-6003	32.193	2.9242 + 0	28798.	8.5672 +23	1536.5	8.3866 + 9	1.8321 - 7	28.964
-5900	-5903	32.192	2.9160	28779.	8.5431	1536.0	8.3603	1.8372	28.964
-5800	-5803	32.192	2.9078	28760.	8.5191	1535.3	8.3340	1.8424	28.964
-5700	-5703	32.192	2.8994	28741.	8.4951	1535.0	8.3078	1.8474	28.964
-5600	-5603	32.191	2.8911	28723.	8.4712	1534.4	8.2817	1.8526	28.964
-5500	-5503	32.191	2.8832	28704.	8.4474	1533.9	8.2554	1.8580	28.964
-5400	-5403	32.191	2.8750	28685.	8.4234	1533.4	8.2294	1.8633	28.964
-5300	-5303	32.190	2.8669	28666.	8.3998	1532.9	8.2037	1.8684	28.964
-5200	-5203	32.190	2.8586	28648.	8.3761	1532.4	8.1778	1.8739	28.964
-5100	-5103	32.190	2.8507	28629.	8.3525	1531.9	8.1520	1.8792	28.964
-5000	-5003	32.189	2.8424 + 0	28610.	8.3289 +23	1531.4	8.1265 + 9	1.8845 - 7	28.964
-4900	-4903	32.189	2.8345	28591.	8.3053	1530.9	8.1004	1.8898	28.964
-4800	-4803	32.189	2.8265	28573.	8.2818	1530.4	8.0750	1.8952	28.964
-4700	-4703	32.189	2.8185	28554.	8.2584	1529.9	8.0495	1.9006	28.964
-4600	-4603	32.188	2.8105	28535.	8.2350	1529.4	8.0240	1.9060	28.964
-4500	-4503	32.188	2.8025	28516.	8.2116	1528.9	7.9986	1.9114	28.964
-4400	-4403	32.188	2.7945	28498.	8.1884	1528.3	7.9733	1.9168	28.964
-4300	-4303	32.187	2.7865	28479.	8.1651	1527.8	7.9480	1.9223	28.964
-4200	-4203	32.187	2.7784	28460.	8.1419	1527.3	7.9228	1.9278	28.964
-4100	-4103	32.187	2.7707	28441.	8.1188	1526.8	7.8974	1.9333	28.964
-4000	-4003	32.186	2.7628 + 0	28423.	8.0957 +23	1526.3	7.8725 + 9	1.9388 - 7	28.964
-3900	-3903	32.186	2.7549	28404.	8.0727	1525.8	7.8475	1.9443	28.964
-3800	-3803	32.186	2.7470	28385.	8.0497	1525.3	7.8225	1.9499	28.964
-3700	-3703	32.185	2.7391	28366.	8.0267	1524.8	7.7974	1.9554	28.964
-3600	-3603	32.185	2.7313	28348.	8.0038	1524.2	7.7728	1.9610	28.964
-3500	-3503	32.185	2.7235	28329.	7.9810	1523.7	7.7480	1.9666	28.964
-3400	-3403	32.185	2.7157	28310.	7.9582	1523.2	7.7233	1.9723	28.964
-3300	-3303	32.184	2.7079	28291.	7.9355	1522.7	7.6986	1.9779	28.964
-3200	-3203	32.184	2.7001	28273.	7.9128	1522.2	7.6740	1.9834	28.964
-3100	-3103	32.184	2.6924	28254.	7.8902	1521.7	7.6495	1.9893	28.964
-3000	-3003	32.183	2.6847 + 0	28235.	7.8674 +23	1521.2	7.6250 + 9	1.9950 - 7	28.964
-2900	-2903	32.183	2.6769	28216.	7.8450	1520.7	7.6004	2.0007	28.964
-2800	-2803	32.183	2.6692	28197.	7.8225	1520.2	7.5763	2.0065	28.964
-2700	-2703	32.182	2.6614	28179.	7.8001	1519.6	7.5520	2.0122	28.964
-2600	-2603	32.182	2.6539	28160.	7.7777	1519.1	7.5278	2.0180	28.964
-2500	-2503	32.182	2.6462	28141.	7.7554	1518.4	7.5034	2.0238	28.964
-2400	-2403	32.181	2.6386	28122.	7.7331	1518.1	7.4795	2.0297	28.964
-2300	-2303	32.181	2.6310	28104.	7.7108	1517.4	7.4555	2.0355	28.964
-2200	-2203	32.181	2.6234	28085.	7.6884	1517.1	7.4315	2.0414	28.964
-2100	-2103	32.181	2.6158	28066.	7.6665	1516.6	7.4074	2.0473	28.964
-2000	-2003	32.180	2.6083 + 0	28047.	7.6444 +23	1516.0	7.3857 + 9	2.0532 - 7	28.964
-1900	-1903	32.180	2.6007	28029.	7.6224	1515.5	7.3599	2.0592	28.964
-1800	-1803	32.180	2.5932	28010.	7.6004	1515.0	7.3342	2.0651	28.964
-1700	-1703	32.179	2.5857	27991.	7.5784	1514.5	7.3125	2.0711	28.964
-1600	-1603	32.179	2.5782	27972.	7.5565	1514.0	7.2889	2.0771	28.964
-1500	-1503	32.179	2.5707	27954.	7.5347	1513.5	7.2654	2.0831	28.964
-1400	-1403	32.178	2.5632	27935.	7.5129	1513.0	7.2419	2.0892	28.964
-1300	-1303	32.178	2.5558	27916.	7.4911	1512.4	7.2185	2.0952	28.964
-1200	-1203	32.178	2.5484	27897.	7.4694	1511.9	7.1951	2.1013	28.964
-1100	-1103	32.177	2.5409	27879.	7.4477	1511.3	7.1713	2.1074	28.964

TABLE V.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
-1000	-1000	32.177	2.5325 + 0	27660.	7.4261 +23	1510.9	7.1485 + 9	2.1136 - 7	28.964
-900	-900	32.177	2.5326	27661.	7.4086	1510.4	7.1253	2.1197	28.964
-800	-800	32.177	2.5328	27622.	7.3831	1509.9	7.1022	2.1259	28.964
-700	-700	32.176	2.5314	27606.	7.3616	1509.3	7.0792	2.1321	28.964
-600	-600	32.176	2.5301	27785.	7.3402	1508.8	7.0561	2.1383	28.964
-500	-500	32.176	2.5288	27766.	7.3189	1508.3	7.0332	2.1446	28.964
-400	-400	32.175	2.5275	27767.	7.2975	1507.8	7.0103	2.1508	28.964
-300	-300	32.175	2.5262	27729.	7.2762	1507.3	6.9875	2.1571	28.964
-200	-200	32.175	2.5250	27710.	7.2550	1506.8	6.9647	2.1634	28.964
-100	-100	32.174	2.5237	27691.	7.2338	1506.2	6.9420	2.1699	28.964
0	0	32.174	2.5225 + 0	27672.	7.2127 +23	1505.7	6.9193 + 9	2.1761 - 7	28.964
100	100	32.174	2.5233	27654.	7.1916	1505.2	6.8967	2.1825	28.964
200	200	32.173	2.5241	27635.	7.1704	1504.7	6.8742	2.1889	28.964
300	300	32.173	2.5250	27616.	7.1490	1504.2	6.8517	2.1953	28.964
400	400	32.173	2.5257	27597.	7.1287	1503.7	6.8293	2.2018	28.964
500	500	32.173	2.5266	27578.	7.1078	1503.1	6.8069	2.2082	28.964
600	600	32.172	2.5274	27560.	7.0869	1502.6	6.7844	2.2147	28.964
700	700	32.172	2.5283	27541.	7.0661	1502.1	6.7620	2.2213	28.964
800	800	32.172	2.5292	27522.	7.0454	1501.6	6.7402	2.2278	28.964
900	900	32.171	2.5301	27503.	7.0247	1501.1	6.7181	2.2344	28.964
1000	1000	32.171	2.5309 + 0	27485.	7.0040 +23	1500.5	6.6960 + 9	2.2410 - 7	28.964
1100	1100	32.171	2.5320	27466.	6.9834	1500.0	6.6740	2.2476	28.964
1200	1200	32.170	2.5330	27447.	6.9628	1499.5	6.6520	2.2542	28.964
1300	1300	32.170	2.5340	27428.	6.9423	1499.0	6.6301	2.2609	28.964
1400	1400	32.170	2.5350	27410.	6.9218	1498.5	6.6082	2.2676	28.964
1500	1500	32.169	2.5359	27391.	6.9014	1497.9	6.5865	2.2743	28.964
1600	1600	32.169	2.5369	27372.	6.8810	1497.4	6.5647	2.2810	28.964
1700	1700	32.169	2.5379	27353.	6.8607	1496.9	6.5430	2.2878	28.964
1800	1800	32.168	2.5389	27335.	6.8404	1496.4	6.5214	2.2946	28.964
1900	1900	32.168	2.5399	27316.	6.8201	1495.9	6.4999	2.3014	28.964
2000	2000	32.168	2.5392 + 0	27297.	6.7999 +23	1495.3	6.4786 + 9	2.3082 - 7	28.964
2100	2100	32.168	2.5323	27278.	6.7798	1494.8	6.4569	2.3151	28.964
2200	2200	32.167	2.5355	27259.	6.7597	1494.3	6.4355	2.3219	28.964
2300	2300	32.167	2.5386	27241.	6.7396	1493.8	6.4142	2.3289	28.964
2400	2400	32.167	2.5397	27222.	6.7196	1493.2	6.3929	2.3358	28.964
2500	2500	32.166	2.5409	27203.	6.6996	1492.7	6.3717	2.3428	28.964
2600	2600	32.166	2.5421	27184.	6.6797	1492.2	6.3505	2.3497	28.964
2700	2700	32.166	2.5433	27166.	6.6598	1491.7	6.3294	2.3568	28.964
2800	2800	32.165	2.5445	27147.	6.6400	1491.2	6.3083	2.3638	28.964
2900	2900	32.165	2.5457	27128.	6.6202	1490.6	6.2873	2.3709	28.964
3000	3000	32.165	2.5450 + 0	27109.	6.6005 +23	1490.1	6.2664 + 9	2.3780 - 7	28.964
3100	3100	32.164	2.5462	27091.	6.5808	1489.6	6.2455	2.3851	28.964
3200	3200	32.164	2.5475	27072.	6.5611	1489.1	6.2246	2.3922	28.964
3300	3300	32.164	2.5488	27053.	6.5415	1488.5	6.2038	2.3994	28.964
3400	3400	32.164	2.5501	27034.	6.5219	1488.0	6.1831	2.4066	28.964
3500	3500	32.163	2.5514	27015.	6.5024	1487.5	6.1624	2.4138	28.964
3600	3600	32.163	2.5527	26997.	6.4830	1487.0	6.1418	2.4211	28.964
3700	3700	32.163	2.5540	26978.	6.4635	1486.4	6.1212	2.4283	28.964
3800	3800	32.162	2.5553	26959.	6.4441	1485.9	6.1007	2.4356	28.964
3900	3900	32.162	2.5566	26940.	6.4248	1485.4	6.0803	2.4430	28.964
4000	4000	32.162	2.5579 + 0	26922.	6.4055 +23	1484.9	6.0599 + 9	2.4503 - 7	28.964
4100	4100	32.161	2.5592	26903.	6.3863	1484.3	6.0395	2.4577	28.964
4200	4200	32.161	2.5605	26884.	6.3670	1483.8	6.0192	2.4651	28.964
4300	4300	32.161	2.5618	26865.	6.3479	1483.3	5.9990	2.4726	28.964
4400	4400	32.160	2.5631	26846.	6.3288	1482.8	5.9788	2.4800	28.964
4500	4500	32.160	2.5644	26828.	6.3097	1482.2	5.9587	2.4875	28.964
4600	4600	32.160	2.5657	26809.	6.2907	1481.7	5.9386	2.4951	28.964
4700	4700	32.160	2.5670	26790.	6.2717	1481.2	5.9186	2.5026	28.964
4800	4800	32.159	2.5683	26771.	6.2527	1480.7	5.8986	2.5102	28.964
4900	4900	32.159	2.5696	26753.	6.2338	1480.1	5.8787	2.5178	28.964
5000	5000	32.159	2.5699 + 0	26734.	6.2150 +23	1479.6	5.8588 + 9	2.5255 - 7	28.964
5100	5100	32.158	2.5712	26715.	6.1962	1479.1	5.8390	2.5331	28.964
5200	5200	32.158	2.5725	26696.	6.1774	1478.6	5.8192	2.5408	28.964
5300	5300	32.158	2.5738	26677.	6.1587	1478.0	5.7995	2.5485	28.964
5400	5400	32.157	2.5751	26659.	6.1400	1477.5	5.7799	2.5563	28.964
5500	5500	32.157	2.5764	26640.	6.1214	1477.0	5.7603	2.5641	28.964
5600	5600	32.157	2.5777	26621.	6.1028	1476.5	5.7407	2.5719	28.964
5700	5700	32.156	2.5790	26602.	6.0842	1475.9	5.7212	2.5797	28.964
5800	5800	32.156	2.5803	26583.	6.0657	1475.4	5.7018	2.5876	28.964
5900	5900	32.156	2.5816	26565.	6.0472	1474.9	5.6824	2.5955	28.964
6000	6000	32.156	2.5819 + 0	26546.	6.0288 +23	1474.3	5.6630 + 9	2.6034 - 7	28.964
6100	6100	32.155	2.5832	26527.	6.0104	1473.8	5.6438	2.6114	28.964
6200	6200	32.155	2.5845	26508.	5.9921	1473.3	5.6245	2.6194	28.964
6300	6300	32.155	2.5858	26490.	5.9738	1472.8	5.6053	2.6274	28.964
6400	6400	32.154	2.5871	26471.	5.9556	1472.2	5.5862	2.6355	28.964
6500	6500	32.154	2.5884	26452.	5.9373	1471.7	5.5671	2.6435	28.964
6600	6600	32.154	2.5897	26433.	5.9192	1471.2	5.5481	2.6517	28.964
6700	6700	32.153	2.5910	26414.	5.9011	1470.6	5.5291	2.6598	28.964
6800	6800	32.153	2.5923	26395.	5.8830	1470.1	5.5102	2.6679	28.964
6900	6900	32.153	2.5936	26377.	5.8649	1469.6	5.4913	2.6762	28.964

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
-1000	-1000	32.177	2.5355 + 0	27860.	7.4261 +23	1510.9	7.1485 + 9	2.1134 - 7	28.964
-900	-900	32.177	2.5262	27841.	7.4046	1510.4	7.1254	2.1197	28.964
-800	-800	32.177	2.5188	27822.	7.3831	1509.9	7.1032	2.1259	28.964
-700	-700	32.174	2.5115	27804.	7.3616	1509.3	7.0792	2.1321	28.964
-600	-600	32.174	2.5041	27785.	7.3402	1508.8	7.0561	2.1383	28.964
-500	-500	32.174	2.4968	27766.	7.3188	1508.3	7.0332	2.1446	28.964
-400	-400	32.175	2.4895	27747.	7.2975	1507.8	7.0103	2.1508	28.964
-300	-300	32.175	2.4822	27729.	7.2762	1507.3	6.9875	2.1571	28.964
-200	-200	32.175	2.4750	27710.	7.2550	1506.8	6.9647	2.1634	28.964
-100	-100	32.174	2.4677	27691.	7.2338	1506.2	6.9420	2.1698	28.964
0	0	32.174	2.4605 + 0	27672.	7.2127 +23	1505.7	6.9195 + 9	2.1761 - 7	28.964
100	100	32.174	2.4533	27654.	7.1916	1505.2	6.8967	2.1825	28.964
200	200	32.173	2.4461	27635.	7.1704	1504.7	6.8742	2.1889	28.964
300	300	32.173	2.4389	27616.	7.1494	1504.2	6.8517	2.1953	28.964
400	400	32.173	2.4317	27597.	7.1287	1503.7	6.8295	2.2018	28.964
500	500	32.173	2.4246	27578.	7.1078	1503.1	6.8069	2.2082	28.964
600	600	32.172	2.4174	27560.	7.0869	1502.6	6.7846	2.2147	28.964
700	700	32.172	2.4103	27541.	7.0661	1502.1	6.7624	2.2213	28.964
800	800	32.172	2.4032	27522.	7.0454	1501.6	6.7402	2.2278	28.964
900	900	32.171	2.3961	27503.	7.0247	1501.1	6.7181	2.2344	28.964
1000	1000	32.171	2.3891 + 0	27485.	7.0040 +23	1500.5	6.6960 + 9	2.2410 - 7	28.964
1100	1100	32.171	2.3820	27466.	6.9834	1500.0	6.6740	2.2476	28.964
1200	1200	32.170	2.3750	27447.	6.9628	1499.5	6.6520	2.2542	28.964
1300	1300	32.170	2.3680	27428.	6.9423	1499.0	6.6301	2.2609	28.964
1400	1400	32.170	2.3609	27410.	6.9218	1498.5	6.6083	2.2674	28.964
1500	1500	32.169	2.3540	27391.	6.9014	1497.9	6.5865	2.2743	28.964
1600	1600	32.169	2.3470	27372.	6.8810	1497.4	6.5647	2.2810	28.964
1700	1700	32.169	2.3400	27353.	6.8607	1496.9	6.5431	2.2878	28.964
1800	1800	32.168	2.3331	27335.	6.8404	1496.4	6.5215	2.2945	28.964
1900	1900	32.168	2.3262	27316.	6.8202	1495.9	6.4999	2.3014	28.964
2000	2000	32.168	2.3192 + 0	27297.	6.8000 +23	1495.3	6.4784 + 9	2.3082 - 7	28.964
2100	2100	32.168	2.3124	27278.	6.7798	1494.8	6.4569	2.3150	28.964
2200	2200	32.167	2.3055	27259.	6.7597	1494.3	6.4356	2.3219	28.964
2300	2300	32.167	2.2986	27241.	6.7397	1493.8	6.4142	2.3288	28.964
2400	2400	32.167	2.2918	27222.	6.7197	1493.3	6.3929	2.3356	28.964
2500	2500	32.166	2.2849	27203.	6.6997	1492.7	6.3717	2.3427	28.964
2600	2600	32.166	2.2781	27184.	6.6798	1492.2	6.3506	2.3497	28.964
2700	2700	32.166	2.2713	27166.	6.6599	1491.7	6.3294	2.3567	28.964
2800	2800	32.165	2.2645	27147.	6.6401	1491.2	6.3084	2.3638	28.964
2900	2900	32.165	2.2578	27128.	6.6203	1490.6	6.2874	2.3708	28.964
3000	3000	32.165	2.2510 + 0	27109.	6.6006 +23	1490.1	6.2664 + 9	2.3779 - 7	28.964
3100	3100	32.164	2.2443	27091.	6.5809	1489.6	6.2454	2.3850	28.964
3200	3200	32.164	2.2376	27072.	6.5612	1489.1	6.2247	2.3922	28.964
3300	3300	32.164	2.2308	27053.	6.5416	1488.5	6.2039	2.3994	28.964
3400	3400	32.164	2.2242	27034.	6.5221	1488.0	6.1832	2.4065	28.964
3500	3500	32.163	2.2175	27016.	6.5025	1487.5	6.1624	2.4138	28.964
3600	3600	32.163	2.2108	26997.	6.4831	1487.0	6.1419	2.4210	28.964
3700	3700	32.163	2.2042	26978.	6.4637	1486.5	6.1214	2.4283	28.964
3800	3800	32.162	2.1975	26959.	6.4443	1486.0	6.1009	2.4356	28.964
3900	3900	32.162	2.1909	26940.	6.4249	1485.4	6.0804	2.4429	28.964
4000	4000	32.162	2.1843 + 0	26922.	6.4057 +23	1484.9	6.0600 + 9	2.4503 - 7	28.964
4100	4100	32.161	2.1778	26903.	6.3864	1484.4	6.0397	2.4577	28.964
4200	4200	32.161	2.1712	26884.	6.3672	1483.8	6.0194	2.4651	28.964
4300	4300	32.161	2.1646	26865.	6.3481	1483.3	5.9992	2.4725	28.964
4400	4400	32.160	2.1581	26847.	6.3289	1482.8	5.9790	2.4800	28.964
4500	4500	32.160	2.1516	26828.	6.3099	1482.3	5.9589	2.4875	28.964
4600	4600	32.160	2.1451	26809.	6.2909	1481.7	5.9388	2.4950	28.964
4700	4700	32.160	2.1386	26790.	6.2719	1481.2	5.9188	2.5025	28.964
4800	4800	32.159	2.1321	26772.	6.2529	1480.7	5.8988	2.5101	28.964
4900	4900	32.159	2.1256	26753.	6.2340	1480.1	5.8788	2.5177	28.964
5000	5000	32.159	2.1192 + 0	26734.	6.2152 +23	1479.6	5.8590 + 9	2.5254 - 7	28.964
5100	5100	32.158	2.1128	26715.	6.1964	1479.1	5.8392	2.5330	28.964
5200	5200	32.158	2.1063	26696.	6.1774	1478.6	5.8195	2.5407	28.964
5300	5300	32.158	2.0999	26678.	6.1589	1478.0	5.7998	2.5484	28.964
5400	5400	32.157	2.0936	26659.	6.1403	1477.5	5.7801	2.5562	28.964
5500	5500	32.157	2.0872	26640.	6.1216	1477.0	5.7605	2.5640	28.964
5600	5600	32.157	2.0808	26621.	6.1030	1476.5	5.7410	2.5718	28.964
5700	5700	32.156	2.0745	26603.	6.0845	1475.9	5.7215	2.5796	28.964
5800	5800	32.156	2.0682	26584.	6.0660	1475.4	5.7021	2.5875	28.964
5900	5900	32.156	2.0618	26565.	6.0475	1474.9	5.6827	2.5954	28.964
6000	6000	32.156	2.0555 + 0	26546.	6.0291 +23	1474.3	5.6634 + 9	2.6033 - 7	28.964
6100	6100	32.155	2.0493	26528.	6.0108	1473.8	5.6441	2.6113	28.964
6200	6200	32.155	2.0430	26509.	5.9924	1473.3	5.6249	2.6192	28.964
6300	6300	32.155	2.0367	26490.	5.9742	1472.8	5.6057	2.6273	28.964
6400	6400	32.154	2.0305	26471.	5.9559	1472.2	5.5866	2.6353	28.964
6500	6500	32.154	2.0243	26452.	5.9377	1471.7	5.5675	2.6434	28.964
6600	6600	32.154	2.0181	26434.	5.9196	1471.2	5.5485	2.6515	28.964
6700	6700	32.153	2.0119	26415.	5.9014	1470.6	5.5295	2.6596	28.964
6800	6800	32.153	2.0057	26396.	5.8834	1470.1	5.5106	2.6678	28.964
6900	6900	32.153	1.9995	26377.	5.8654	1469.6	5.4917	2.6760	28.964

TABLE X.—Continued
 GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
7000	7002	32.152	1.9932 + 0	26350.	5.0669 +23	1469.0	5.4725 + 9	2.6866 - 7	28.964
7100	7102	32.152	1.9971	26339.	5.0290	1468.5	5.4537	2.6927	28.964
7200	7202	32.152	1.9910	26327.	5.0111	1468.0	5.4350	2.7010	28.964
7300	7303	32.152	1.9749	26322.	5.7932	1467.4	5.4163	2.7093	28.964
7400	7403	32.151	1.9608	26285.	5.7754	1466.9	5.3977	2.7177	28.964
7500	7503	32.151	1.9467	26246.	5.7576	1466.4	5.3791	2.7261	28.964
7600	7603	32.151	1.9326	26245.	5.7399	1465.9	5.3604	2.7345	28.964
7700	7703	32.150	1.9185	26227.	5.7222	1465.3	5.3421	2.7430	28.964
7800	7803	32.150	1.9043	26208.	5.7045	1464.8	5.3237	2.7515	28.964
7900	7903	32.150	1.8902	26189.	5.6869	1464.3	5.3053	2.7600	28.964
8000	8003	32.149	1.8761	26170.	5.6693	1463.7	5.2870	2.7685	28.964
8100	8103	32.149	1.8620	26151.	5.6516	1463.2	5.2687	2.7771	28.964
8200	8203	32.149	1.8479	26133.	5.6340	1462.7	5.2505	2.7857	28.964
8300	8303	32.148	1.8338	26114.	5.6164	1462.1	5.2322	2.7944	28.964
8400	8403	32.148	1.8197	26095.	5.5988	1461.6	5.2142	2.8031	28.964
8500	8503	32.148	1.8056	26076.	5.5812	1461.1	5.1962	2.8118	28.964
8600	8604	32.148	1.7915	26057.	5.5637	1460.5	5.1781	2.8204	28.964
8700	8704	32.147	1.7774	26039.	5.5461	1460.0	5.1602	2.8294	28.964
8800	8804	32.147	1.7633	26020.	5.5285	1459.5	5.1423	2.8382	28.964
8900	8904	32.147	1.7492	26001.	5.5110	1458.9	5.1244	2.8470	28.964
9000	9004	32.146	1.7351	25982.	5.4934	1458.4	5.1064	2.8559	28.964
9100	9104	32.146	1.7210	25963.	5.4758	1457.9	5.0885	2.8648	28.964
9200	9204	32.146	1.7069	25945.	5.4582	1457.3	5.0711	2.8738	28.964
9300	9304	32.145	1.6928	25926.	5.4406	1456.8	5.0534	2.8828	28.964
9400	9404	32.145	1.6787	25907.	5.4230	1456.3	5.0357	2.8918	28.964
9500	9504	32.145	1.6646	25888.	5.4054	1455.7	5.0182	2.9009	28.964
9600	9604	32.144	1.6505	25870.	5.3878	1455.2	5.0004	2.9100	28.964
9700	9705	32.144	1.6364	25851.	5.3702	1454.6	4.9827	2.9191	28.964
9800	9805	32.144	1.6223	25832.	5.3526	1454.1	4.9651	2.9283	28.964
9900	9905	32.144	1.6082	25813.	5.3350	1453.6	4.9475	2.9375	28.964
10000	10005	32.143	1.5941	25794.	5.3174	1453.0	4.9300	2.9467	28.964
10100	10105	32.143	1.5800	25774.	5.3000	1452.5	4.9127	2.9559	28.964
10200	10205	32.143	1.5659	25757.	5.2824	1452.0	4.8954	2.9651	28.964
10300	10305	32.142	1.5518	25738.	5.2648	1451.4	4.8781	2.9743	28.964
10400	10405	32.142	1.5377	25719.	5.2472	1450.9	4.8608	2.9835	28.964
10500	10505	32.142	1.5236	25700.	5.2296	1450.4	4.8435	2.9927	28.964
10600	10605	32.141	1.5095	25682.	5.2120	1449.8	4.8262	3.0019	28.964
10700	10705	32.141	1.4954	25663.	5.1944	1449.3	4.8089	3.0111	28.964
10800	10805	32.141	1.4813	25644.	5.1768	1448.7	4.7916	3.0203	28.964
10900	10905	32.140	1.4672	25625.	5.1592	1448.2	4.7743	3.0295	28.964
11000	11006	32.140	1.4531	25606.	5.1416	1447.7	4.7570	3.0387	28.964
11100	11106	32.140	1.4390	25588.	5.1240	1447.1	4.7397	3.0479	28.964
11200	11206	32.139	1.4249	25569.	5.1064	1446.6	4.7224	3.0571	28.964
11300	11306	32.139	1.4108	25550.	5.0888	1446.0	4.7051	3.0663	28.964
11400	11406	32.139	1.3967	25531.	5.0712	1445.5	4.6878	3.0755	28.964
11500	11506	32.139	1.3826	25512.	5.0536	1445.0	4.6705	3.0847	28.964
11600	11606	32.138	1.3685	25494.	5.0360	1444.4	4.6532	3.0939	28.964
11700	11707	32.138	1.3544	25475.	5.0184	1443.9	4.6359	3.1031	28.964
11800	11807	32.138	1.3403	25456.	5.0008	1443.4	4.6186	3.1123	28.964
11900	11907	32.137	1.3262	25437.	4.9832	1442.8	4.6013	3.1215	28.964
12000	12007	32.137	1.3121	25418.	4.9656	1442.3	4.5840	3.1307	28.964
12100	12107	32.137	1.2980	25400.	4.9480	1441.7	4.5667	3.1399	28.964
12200	12207	32.136	1.2839	25381.	4.9304	1441.2	4.5494	3.1491	28.964
12300	12307	32.136	1.2698	25362.	4.9128	1440.6	4.5321	3.1583	28.964
12400	12407	32.136	1.2557	25343.	4.8952	1440.1	4.5148	3.1675	28.964
12500	12507	32.135	1.2416	25324.	4.8776	1439.5	4.4975	3.1767	28.964
12600	12608	32.135	1.2275	25306.	4.8600	1439.0	4.4802	3.1859	28.964
12700	12708	32.135	1.2134	25287.	4.8424	1438.4	4.4629	3.1951	28.964
12800	12808	32.135	1.1993	25268.	4.8248	1437.9	4.4456	3.2043	28.964
12900	12908	32.134	1.1852	25249.	4.8072	1437.4	4.4283	3.2135	28.964
13000	13009	32.134	1.1711	25230.	4.7896	1436.9	4.4110	3.2227	28.964
13100	13109	32.134	1.1570	25211.	4.7720	1436.3	4.3937	3.2319	28.964
13200	13209	32.133	1.1429	25193.	4.7544	1435.8	4.3764	3.2411	28.964
13300	13309	32.133	1.1288	25174.	4.7368	1435.2	4.3591	3.2503	28.964
13400	13409	32.133	1.1147	25155.	4.7192	1434.7	4.3418	3.2595	28.964
13500	13509	32.132	1.1006	25136.	4.7016	1434.1	4.3245	3.2687	28.964
13600	13609	32.132	1.0865	25117.	4.6840	1433.6	4.3072	3.2779	28.964
13700	13709	32.132	1.0724	25099.	4.6664	1433.1	4.2899	3.2871	28.964
13800	13809	32.131	1.0583	25080.	4.6488	1432.5	4.2726	3.2963	28.964
13900	13909	32.131	1.0442	25061.	4.6312	1432.0	4.2553	3.3055	28.964
14000	14009	32.131	1.0301	25042.	4.6136	1431.4	4.2380	3.3147	28.964
14100	14110	32.131	1.0160	25023.	4.5960	1430.9	4.2207	3.3239	28.964
14200	14210	32.130	1.0019	25005.	4.5784	1430.3	4.2034	3.3331	28.964
14300	14310	32.130	0.9878	24986.	4.5608	1429.8	4.1861	3.3423	28.964
14400	14410	32.130	0.9737	24967.	4.5432	1429.2	4.1688	3.3515	28.964
14500	14510	32.129	0.9596	24948.	4.5256	1428.7	4.1515	3.3607	28.964
14600	14610	32.129	0.9455	24929.	4.5080	1428.2	4.1342	3.3699	28.964
14700	14710	32.129	0.9314	24911.	4.4904	1427.6	4.1169	3.3791	28.964
14800	14811	32.128	0.9173	24892.	4.4728	1427.1	4.0996	3.3883	28.964
14900	14911	32.128	0.9032	24873.	4.4552	1426.5	4.0823	3.3975	28.964

TABLE V.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
7600	6998	32.152	1.9934 + 0	26359.	5.6676 +23	1469.1	5.4729 + 9	2.6842 - 7	28.964
7700	7098	32.152	1.9873	26340.	5.6294	1468.9	5.4542	2.6925	28.964
7800	7198	32.152	1.9811	26321.	5.6115	1468.0	5.4354	2.7008	28.964
7900	7297	32.152	1.9750	26302.	5.7937	1467.5	5.4168	2.7091	28.964
7400	7397	32.151	1.9689	26283.	5.7759	1466.9	5.3982	2.7175	28.964
7500	7497	32.151	1.9629	26265.	5.7581	1466.4	5.3796	2.7258	28.964
7600	7597	32.151	1.9568	26246.	5.7403	1465.9	5.3611	2.7343	28.964
7700	7697	32.150	1.9507	26227.	5.7227	1465.3	5.3424	2.7427	28.964
7800	7797	32.150	1.9447	26208.	5.7150	1464.8	5.3242	2.7512	28.964
7900	7897	32.150	1.9387	26189.	5.6976	1464.3	5.3059	2.7597	28.964
8000	7997	32.149	1.9327 + 0	26171.	5.6699 +23	1463.7	5.2876 + 9	2.7683 - 7	28.964
8100	8097	32.149	1.9267	26152.	5.6523	1463.2	5.2693	2.7769	28.964
8200	8197	32.149	1.9207	26133.	5.6348	1462.7	5.2511	2.7855	28.964
8300	8297	32.148	1.9148	26114.	5.6174	1462.1	5.2330	2.7941	28.964
8400	8397	32.148	1.9088	26096.	5.6000	1461.6	5.2148	2.8026	28.964
8500	8497	32.148	1.9029	26077.	5.5826	1461.1	5.1968	2.8115	28.964
8600	8596	32.148	1.8969	26058.	5.5653	1460.5	5.1788	2.8203	28.964
8700	8696	32.147	1.8910	26039.	5.5481	1460.0	5.1608	2.8290	28.964
8800	8796	32.147	1.8852	26021.	5.5308	1459.5	5.1429	2.8377	28.964
8900	8896	32.147	1.8793	26002.	5.5136	1458.9	5.1251	2.8467	28.964
9000	8996	32.146	1.8734 + 0	25985.	5.4965 +23	1458.4	5.1072 + 9	2.8556 - 7	28.964
9100	9096	32.146	1.8674	25966.	5.4790	1457.9	5.0895	2.8645	28.964
9200	9196	32.146	1.8617	25948.	5.4623	1457.3	5.0718	2.8734	28.964
9300	9296	32.145	1.8559	25929.	5.4453	1456.8	5.0541	2.8824	28.964
9400	9396	32.145	1.8501	25910.	5.4283	1456.3	5.0365	2.8914	28.964
9500	9496	32.145	1.8443	25891.	5.4116	1455.7	5.0189	2.9005	28.964
9600	9596	32.144	1.8385	25872.	5.3944	1455.2	5.0014	2.9096	28.964
9700	9696	32.144	1.8328	25852.	5.3776	1454.7	4.9839	2.9187	28.964
9800	9795	32.144	1.8270	25833.	5.3608	1454.1	4.9665	2.9278	28.964
9900	9895	32.144	1.8213	25814.	5.3440	1453.6	4.9491	2.9371	28.964
10000	9995	32.143	1.8155 + 0	25795.	5.3272 +23	1453.1	4.9318 + 9	2.9463 - 7	28.964
10100	10095	32.143	1.8098	25776.	5.3105	1452.5	4.9145	2.9556	28.964
10200	10195	32.143	1.8041	25758.	5.2939	1452.0	4.8973	2.9649	28.964
10300	10295	32.142	1.7985	25739.	5.2772	1451.5	4.8801	2.9742	28.964
10400	10395	32.142	1.7928	25720.	5.2607	1450.9	4.8630	2.9836	28.964
10500	10495	32.142	1.7871	25701.	5.2441	1450.4	4.8459	2.9930	28.964
10600	10595	32.141	1.7815	25683.	5.2276	1449.8	4.8287	3.0024	28.964
10700	10695	32.141	1.7759	25664.	5.2112	1449.3	4.8119	3.0119	28.964
10800	10794	32.141	1.7703	25645.	5.1947	1448.8	4.7949	3.0215	28.964
10900	10894	32.140	1.7647	25626.	5.1784	1448.2	4.7781	3.0310	28.964
11000	10994	32.140	1.7591 + 0	25607.	5.1620 +23	1447.7	4.7612 + 9	3.0406 - 7	28.964
11100	11094	32.140	1.7535	25589.	5.1457	1447.2	4.7446	3.0502	28.964
11200	11194	32.139	1.7479	25570.	5.1294	1446.6	4.7277	3.0599	28.964
11300	11294	32.139	1.7424	25552.	5.1132	1446.1	4.7109	3.0696	28.964
11400	11394	32.139	1.7369	25533.	5.0970	1445.5	4.6943	3.0794	28.964
11500	11494	32.138	1.7313	25514.	5.0809	1445.0	4.6777	3.0892	28.964
11600	11594	32.138	1.7258	25495.	5.0648	1444.5	4.6611	3.0990	28.964
11700	11693	32.138	1.7203	25476.	5.0487	1443.9	4.6446	3.1088	28.964
11800	11793	32.138	1.7149	25457.	5.0327	1443.4	4.6281	3.1187	28.964
11900	11893	32.137	1.7094	25438.	5.0167	1442.8	4.6117	3.1287	28.964
12000	11993	32.137	1.7040 + 0	25420.	5.0008 +23	1442.3	4.5953 + 9	3.1387 - 7	28.964
12100	12093	32.137	1.6985	25401.	4.9848	1441.8	4.5790	3.1487	28.964
12200	12193	32.136	1.6931	25382.	4.9690	1441.2	4.5627	3.1587	28.964
12300	12293	32.136	1.6877	25363.	4.9531	1440.7	4.5464	3.1688	28.964
12400	12393	32.136	1.6823	25345.	4.9373	1440.1	4.5302	3.1789	28.964
12500	12493	32.136	1.6769	25326.	4.9216	1439.6	4.5141	3.1891	28.964
12600	12592	32.135	1.6715	25307.	4.9059	1439.1	4.4980	3.1994	28.964
12700	12692	32.135	1.6662	25288.	4.8902	1438.5	4.4819	3.2096	28.964
12800	12792	32.135	1.6608	25269.	4.8746	1438.0	4.4659	3.2199	28.964
12900	12892	32.134	1.6555	25251.	4.8590	1437.4	4.4499	3.2303	28.964
13000	12992	32.134	1.6502 + 0	25232.	4.8434 +23	1436.9	4.4340 + 9	3.2406 - 7	28.964
13100	13092	32.134	1.6449	25213.	4.8279	1436.4	4.4181	3.2511	28.964
13200	13192	32.133	1.6396	25194.	4.8124	1435.8	4.4023	3.2615	28.964
13300	13292	32.133	1.6343	25175.	4.7969	1435.3	4.3865	3.2720	28.964
13400	13391	32.133	1.6290	25157.	4.7815	1434.7	4.3708	3.2826	28.964
13500	13491	32.132	1.6236	25138.	4.7662	1434.2	4.3551	3.2931	28.964
13600	13591	32.132	1.6183	25119.	4.7508	1433.6	4.3394	3.3038	28.964
13700	13691	32.132	1.6130	25100.	4.7355	1433.1	4.3238	3.3146	28.964
13800	13791	32.132	1.6078	25082.	4.7203	1432.6	4.3082	3.3253	28.964
13900	13891	32.131	1.6029	25063.	4.7050	1432.0	4.2927	3.3359	28.964
14000	13991	32.131	1.5977 + 0	25044.	4.6899 +23	1431.5	4.2772 + 9	3.3467 - 7	28.964
14100	14090	32.131	1.5925	25025.	4.6747	1431.0	4.2618	3.3576	28.964
14200	14190	32.130	1.5875	25006.	4.6596	1430.4	4.2464	3.3686	28.964
14300	14290	32.130	1.5822	24988.	4.6445	1429.9	4.2311	3.3796	28.964
14400	14390	32.130	1.5771	24969.	4.6295	1429.3	4.2158	3.3906	28.964
14500	14490	32.129	1.5720	24950.	4.6145	1428.8	4.2005	3.4016	28.964
14600	14590	32.129	1.5669	24931.	4.5996	1428.2	4.1853	3.4126	28.964
14700	14690	32.129	1.5618	24912.	4.5846	1427.7	4.1701	3.4235	28.964
14800	14790	32.128	1.5567	24894.	4.5696	1427.1	4.1550	3.4347	28.964
14900	14889	32.128	1.5516	24875.	4.5546	1426.6	4.1399	3.4459	28.964

TABLE 32.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g, ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H _p , ft	Number density n, ft ⁻³	Particle speed V, ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L, ft	Molecular weight M
H, ft	Z, ft								
15000	15011	32.120	1.5000 • 0	20834.	4.9385 • 23	1026.0	4.1233 • 9	3.6503 - 7	28.964
15100	15111	32.127	1.5010	20835.	4.9337	1025.4	4.1188	3.6474	28.964
15200	15211	32.127	1.5010	20816.	4.9090	1024.9	4.0933	3.6410	28.964
15300	15311	32.127	1.5009	20790.	4.8942	1024.3	4.0784	3.6326	28.964
15400	15411	32.127	1.5009	20772.	4.8795	1023.8	4.0635	3.6238	28.964
15500	15512	32.126	1.5009	20760.	4.8649	1023.2	4.0487	3.6153	28.964
15600	15612	32.126	1.5009	20741.	4.8501	1022.7	4.0339	3.6069	28.964
15700	15712	32.125	1.5009	20722.	4.8353	1022.1	4.0191	3.5984	28.964
15800	15812	32.125	1.5009	20704.	4.8205	1021.6	4.0044	3.5899	28.964
15900	15912	32.125	1.5009	20695.	4.8057	1021.0	3.9897	3.5817	28.964
16000	16012	32.125	1.5000 • 0	20660.	4.7925 • 23	1020.5	3.9751 • 9	3.5735 - 7	28.964
16100	16112	32.124	1.5011	20647.	4.7778	1019.9	3.9605	3.5652	28.964
16200	16212	32.124	1.5002	20628.	4.7630	1019.4	3.9460	3.5571	28.964
16300	16313	32.124	1.5013	20607.	4.7481	1018.8	3.9315	3.5489	28.964
16400	16413	32.123	1.5004	20591.	4.7333	1018.3	3.9170	3.5409	28.964
16500	16513	32.123	1.5015	20572.	4.7185	1017.7	3.9026	3.5328	28.964
16600	16613	32.123	1.5007	20553.	4.7037	1017.2	3.8882	3.5248	28.964
16700	16713	32.123	1.5018	20534.	4.6889	1016.6	3.8739	3.5169	28.964
16800	16814	32.122	1.5009	20515.	4.6741	1016.1	3.8596	3.5090	28.964
16900	16914	32.122	1.5021	20497.	4.6593	1015.5	3.8454	3.5012	28.964
17000	17014	32.122	1.5021 • 0	20478.	4.6445 • 23	1015.0	3.8311 • 9	3.4934 - 7	28.964
17100	17114	32.121	1.5025	20459.	4.6297	1014.4	3.8170	3.4857	28.964
17200	17214	32.121	1.5037	20440.	4.6149	1013.9	3.8029	3.4780	28.964
17300	17314	32.121	1.5030	20421.	4.6001	1013.3	3.7888	3.4703	28.964
17400	17415	32.120	1.5022	20402.	4.5853	1012.8	3.7747	3.4627	28.964
17500	17515	32.120	1.5034	20384.	4.5705	1012.2	3.7607	3.4552	28.964
17600	17615	32.120	1.5047	20365.	4.5557	1011.7	3.7468	3.4477	28.964
17700	17715	32.119	1.5040	20346.	4.5409	1011.1	3.7329	3.4403	28.964
17800	17815	32.119	1.5052	20327.	4.5261	1010.6	3.7190	3.4329	28.964
17900	17915	32.119	1.5065	20308.	4.5113	1010.0	3.7051	3.4256	28.964
18000	18016	32.119	1.5090 • 0	20289.	4.4965 • 23	1009.5	3.6913 • 9	3.4183 - 7	28.964
18100	18116	32.118	1.5052	20271.	4.4817	1008.9	3.6776	3.4111	28.964
18200	18216	32.118	1.5065	20252.	4.4669	1008.4	3.6639	3.4039	28.964
18300	18316	32.118	1.5078	20233.	4.4521	1007.8	3.6502	3.3968	28.964
18400	18416	32.117	1.5091	20214.	4.4373	1007.3	3.6366	3.3897	28.964
18500	18516	32.117	1.5104	20195.	4.4225	1006.7	3.6230	3.3827	28.964
18600	18617	32.117	1.5117	20176.	4.4077	1006.2	3.6094	3.3758	28.964
18700	18717	32.116	1.5130	20158.	4.3929	1005.6	3.5959	3.3689	28.964
18800	18817	32.116	1.5143	20139.	4.3781	1005.0	3.5824	3.3620	28.964
18900	18917	32.116	1.5156	20120.	4.3633	1004.5	3.5690	3.3552	28.964
19000	19017	32.115	1.5169	20101.	4.3485	1003.9	3.5556	3.3485	28.964
19100	19118	32.115	1.5182	20082.	4.3337	1003.4	3.5423	3.3418	28.964
19200	19218	32.115	1.5195	20063.	4.3189	1002.8	3.5290	3.3352	28.964
19300	19318	32.115	1.5208	20044.	4.3041	1002.3	3.5157	3.3286	28.964
19400	19418	32.114	1.5221	20025.	4.2893	1001.7	3.5024	3.3221	28.964
19500	19518	32.114	1.5234	20006.	4.2745	1001.2	3.4892	3.3156	28.964
19600	19618	32.114	1.5247	19987.	4.2597	1000.6	3.4760	3.3092	28.964
19700	19719	32.113	1.5260	19968.	4.2449	1000.0	3.4629	3.3029	28.964
19800	19819	32.113	1.5273	19949.	4.2301	999.5	3.4499	3.2968	28.964
19900	19919	32.113	1.5286	19930.	4.2153	998.9	3.4368	3.2908	28.964
20000	20019	32.112	1.5300 • 0	19911.	4.2005 • 23	998.4	3.4238 • 9	3.2842 - 7	28.964
20100	20119	32.112	1.5313	19892.	4.1857	997.8	3.4109	3.2781	28.964
20200	20220	32.112	1.5326	19873.	4.1709	997.3	3.3980	3.2720	28.964
20300	20320	32.112	1.5339	19854.	4.1561	996.7	3.3851	3.2660	28.964
20400	20420	32.111	1.5352	19835.	4.1413	996.1	3.3722	3.2601	28.964
20500	20520	32.111	1.5365	19816.	4.1265	995.6	3.3594	3.2542	28.964
20600	20620	32.111	1.5378	19797.	4.1117	995.0	3.3467	3.2484	28.964
20700	20721	32.110	1.5391	19778.	4.0969	994.5	3.3339	3.2426	28.964
20800	20821	32.110	1.5404	19759.	4.0821	993.9	3.3212	3.2369	28.964
20900	20921	32.110	1.5417	19740.	4.0673	993.3	3.3086	3.2313	28.964
21000	21021	32.109	1.5430 • 0	19721.	4.0525 • 23	992.8	3.2960 • 9	3.2257 - 7	28.964
21100	21121	32.109	1.5443	19702.	4.0377	992.2	3.2834	3.2202	28.964
21200	21222	32.109	1.5456	19683.	4.0229	991.7	3.2708	3.2147	28.964
21300	21322	32.108	1.5469	19664.	4.0081	991.1	3.2583	3.2092	28.964
21400	21422	32.108	1.5482	19645.	4.0033	990.5	3.2459	3.2038	28.964
21500	21522	32.108	1.5495	19626.	3.9885	990.0	3.2335	3.1984	28.964
21600	21622	32.107	1.5508	19607.	3.9737	989.4	3.2211	3.1930	28.964
21700	21723	32.107	1.5521	19588.	3.9589	988.9	3.2087	3.1876	28.964
21800	21823	32.107	1.5534	19569.	3.9441	988.3	3.1964	3.1823	28.964
21900	21923	32.107	1.5547	19550.	3.9293	987.7	3.1841	3.1769	28.964
22000	22023	32.106	1.5560 • 0	19531.	3.9145 • 23	987.2	3.1719 • 9	3.1715 - 7	28.964
22100	22123	32.106	1.5573	19512.	3.8997	986.6	3.1597	3.1662	28.964
22200	22224	32.106	1.5586	19493.	3.8849	986.1	3.1475	3.1608	28.964
22300	22324	32.105	1.5599	19474.	3.8701	985.5	3.1354	3.1555	28.964
22400	22424	32.105	1.5612	19455.	3.8553	985.0	3.1233	3.1502	28.964
22500	22524	32.105	1.5625	19436.	3.8405	984.4	3.1113	3.1449	28.964
22600	22625	32.104	1.5638	19417.	3.8257	983.8	3.0992	3.1396	28.964
22700	22725	32.104	1.5651	19398.	3.8109	983.2	3.0873	3.1343	28.964
22800	22825	32.104	1.5664	19379.	3.7961	982.7	3.0753	3.1290	28.964
22900	22925	32.103	1.5677	19360.	3.7813	982.1	3.0634	3.1237	28.964

TABLE V.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed \bar{v} , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z, ft	H, ft								
15000	14009	32.120	1.5465 + 0	24056.	4.5401 +23	1426.0	4.1249 + 9	3.4571 - 7	28.964
15100	15009	32.120	1.5413	24037.	4.5253	1425.5	4.1099	3.4404	28.964
15200	15109	32.127	1.5363	24019.	4.5106	1424.9	4.0950	3.4237	28.964
15300	15209	32.127	1.5314	24000.	4.4959	1424.4	4.0800	3.4071	28.964
15400	15309	32.127	1.5264	23981.	4.4812	1423.8	4.0652	3.3905	28.964
15500	15408	32.124	1.5214	23962.	4.4666	1423.3	4.0504	3.3740	28.964
15600	15508	32.124	1.5165	23943.	4.4520	1422.7	4.0356	3.3575	28.964
15700	15608	32.124	1.5115	23925.	4.4375	1422.2	4.0208	3.3411	28.964
15800	15708	32.125	1.5065	23906.	4.4230	1421.7	4.0061	3.3247	28.964
15900	15808	32.125	1.5016	23887.	4.4085	1421.1	3.9913	3.3083	28.964
16000	15908	32.125	1.4967 + 0	23868.	4.3940 +23	1420.6	3.9769 + 9	3.2920 - 7	28.964
16100	16008	32.124	1.4917	23849.	4.3796	1420.0	3.9623	3.2758	28.964
16200	16107	32.124	1.4868	23831.	4.3653	1419.5	3.9478	3.2596	28.964
16300	16207	32.124	1.4819	23812.	4.3509	1418.9	3.9333	3.2434	28.964
16400	16307	32.124	1.4770	23793.	4.3366	1418.4	3.9189	3.2273	28.964
16500	16407	32.123	1.4722	23774.	4.3224	1417.8	3.9045	3.2112	28.964
16600	16507	32.123	1.4673	23755.	4.3081	1417.3	3.8901	3.1952	28.964
16700	16607	32.123	1.4625	23737.	4.2940	1416.7	3.8757	3.1793	28.964
16800	16706	32.122	1.4576	23718.	4.2798	1416.2	3.8613	3.1634	28.964
16900	16806	32.122	1.4528	23699.	4.2657	1415.6	3.8473	3.1475	28.964
17000	16906	32.122	1.4480 + 0	23680.	4.2516 +23	1415.1	3.8331 + 9	3.1317 - 7	28.964
17100	17006	32.121	1.4432	23662.	4.2376	1414.5	3.8190	3.1159	28.964
17200	17106	32.121	1.4384	23643.	4.2236	1414.0	3.8049	3.1002	28.964
17300	17206	32.121	1.4336	23625.	4.2096	1413.4	3.7908	3.0845	28.964
17400	17305	32.120	1.4289	23606.	4.1956	1412.9	3.7768	3.0688	28.964
17500	17405	32.120	1.4241	23588.	4.1817	1412.3	3.7628	3.0531	28.964
17600	17505	32.120	1.4194	23569.	4.1679	1411.8	3.7488	3.0375	28.964
17700	17605	32.120	1.4147	23550.	4.1540	1411.2	3.7349	3.0219	28.964
17800	17705	32.119	1.4100	23532.	4.1402	1410.7	3.7211	3.0064	28.964
17900	17805	32.119	1.4053	23513.	4.1265	1410.1	3.7073	2.9908	28.964
18000	17904	32.119	1.4006 + 0	23494.	4.1128 +23	1409.6	3.6935 + 9	2.9753 - 7	28.964
18100	18004	32.118	1.3959	23476.	4.0991	1409.0	3.6796	2.9598	28.964
18200	18104	32.118	1.3912	23457.	4.0854	1408.5	3.6656	2.9443	28.964
18300	18204	32.118	1.3864	23439.	4.0718	1407.9	3.6517	2.9288	28.964
18400	18304	32.117	1.3819	23421.	4.0582	1407.3	3.6378	2.9134	28.964
18500	18404	32.117	1.3773	23402.	4.0446	1406.8	3.6239	2.8980	28.964
18600	18503	32.117	1.3727	23384.	4.0311	1406.2	3.6101	2.8826	28.964
18700	18603	32.116	1.3681	23366.	4.0176	1405.7	3.5962	2.8673	28.964
18800	18703	32.116	1.3635	23347.	4.0042	1405.1	3.5824	2.8519	28.964
18900	18803	32.116	1.3589	23329.	3.9908	1404.6	3.5685	2.8366	28.964
19000	18903	32.115	1.3544 + 0	23310.	3.9774 +23	1404.0	3.5549 + 9	2.8212 - 7	28.964
19100	19003	32.115	1.3498	23292.	3.9641	1403.5	3.5410	2.8059	28.964
19200	19102	32.115	1.3453	23274.	3.9508	1402.9	3.5273	2.7906	28.964
19300	19202	32.115	1.3407	23255.	3.9375	1402.4	3.5136	2.7753	28.964
19400	19302	32.114	1.3362	23237.	3.9242	1401.8	3.5000	2.7599	28.964
19500	19402	32.114	1.3317	23218.	3.9110	1401.3	3.4864	2.7447	28.964
19600	19502	32.114	1.3272	23200.	3.8979	1400.7	3.4728	2.7294	28.964
19700	19601	32.113	1.3227	23182.	3.8847	1400.1	3.4593	2.7142	28.964
19800	19701	32.113	1.3182	23164.	3.8716	1399.6	3.4458	2.6990	28.964
19900	19801	32.113	1.3138	23145.	3.8585	1399.0	3.4323	2.6838	28.964
20000	19901	32.112	1.3093 + 0	23126.	3.8455 +23	1398.5	3.4189 + 9	2.6686 - 7	28.964
20100	20001	32.112	1.3049	23108.	3.8325	1397.9	3.4056	2.6534	28.964
20200	20100	32.112	1.3004	23090.	3.8195	1397.4	3.3923	2.6383	28.964
20300	20200	32.111	1.2960	23072.	3.8066	1396.8	3.3790	2.6232	28.964
20400	20300	32.111	1.2916	23054.	3.7937	1396.2	3.3658	2.6081	28.964
20500	20400	32.111	1.2872	23036.	3.7808	1395.7	3.3526	2.5931	28.964
20600	20500	32.111	1.2828	23018.	3.7680	1395.1	3.3395	2.5781	28.964
20700	20600	32.110	1.2785	23000.	3.7552	1394.6	3.3265	2.5632	28.964
20800	20700	32.110	1.2741	22982.	3.7424	1394.0	3.3136	2.5483	28.964
20900	20800	32.110	1.2698	22964.	3.7297	1393.5	3.3012	2.5335	28.964
21000	20900	32.109	1.2654 + 0	22946.	3.7170 +23	1392.9	3.2886 + 9	2.5187 - 7	28.964
21100	21000	32.109	1.2611	22928.	3.7043	1392.3	3.2761	2.5039	28.964
21200	21100	32.109	1.2568	22910.	3.6917	1391.8	3.2636	2.4892	28.964
21300	21200	32.108	1.2525	22892.	3.6791	1391.2	3.2511	2.4745	28.964
21400	21300	32.108	1.2482	22874.	3.6665	1390.7	3.2386	2.4598	28.964
21500	21400	32.108	1.2439	22856.	3.6540	1390.1	3.2262	2.4452	28.964
21600	21500	32.107	1.2397	22838.	3.6415	1389.5	3.2138	2.4306	28.964
21700	21600	32.107	1.2354	22820.	3.6290	1389.0	3.2015	2.4161	28.964
21800	21700	32.107	1.2312	22802.	3.6166	1388.4	3.1892	2.4016	28.964
21900	21800	32.107	1.2269	22784.	3.6042	1387.9	3.1769	2.3871	28.964
22000	21900	32.106	1.2227 + 0	22766.	3.5918 +23	1387.3	3.1647 + 9	2.3727 - 7	28.964
22100	22000	32.106	1.2185	22748.	3.5795	1386.7	3.1525	2.3583	28.964
22200	22100	32.106	1.2143	22730.	3.5672	1386.2	3.1403	2.3440	28.964
22300	22200	32.105	1.2101	22712.	3.5549	1385.6	3.1281	2.3297	28.964
22400	22300	32.105	1.2059	22694.	3.5426	1385.1	3.1160	2.3155	28.964
22500	22400	32.105	1.2018	22676.	3.5304	1384.5	3.1039	2.3013	28.964
22600	22500	32.104	1.1976	22658.	3.5183	1384.0	3.0918	2.2872	28.964
22700	22600	32.104	1.1934	22640.	3.5061	1383.4	3.0798	2.2731	28.964
22800	22700	32.104	1.1893	22622.	3.4940	1382.8	3.0678	2.2591	28.964
22900	22800	32.104	1.1852	22604.	3.4819	1382.3	3.0559	2.2451	28.964

TABLE X.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³ sec ²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
23000	23025	32.103	1.1000 + 0	23340.	3.4668 +23	1381.5	3.0515 + 9	4.5274 - 7	28.964
23100	23126	32.103	1.1769	23329.	3.4540	1381.0	3.0397	4.5432	28.964
23200	23226	32.102	1.1718	23310.	3.4428	1380.4	3.0279	4.5590	28.964
23300	23326	32.102	1.1677	23291.	3.4308	1379.9	3.0161	4.5749	28.964
23400	23426	32.102	1.1637	23272.	3.4189	1379.3	3.0044	4.5909	28.964
23500	23527	32.102	1.1596	23253.	3.4070	1378.7	2.9927	4.6069	28.964
23600	23627	32.101	1.1556	23235.	3.3951	1378.2	2.9811	4.6230	28.964
23700	23727	32.101	1.1515	23216.	3.3833	1377.6	2.9694	4.6392	28.964
23800	23827	32.101	1.1475	23197.	3.3714	1377.0	2.9579	4.6555	28.964
23900	23927	32.100	1.1433	23178.	3.3597	1376.5	2.9463	4.6718	28.964
24000	24028	32.100	1.1395 + 0	23159.	3.3479 +23	1375.9	2.9348 + 9	4.6882 - 7	28.964
24100	24128	32.100	1.1355	23140.	3.3362	1375.3	2.9233	4.7047	28.964
24200	24228	32.099	1.1316	23122.	3.3245	1374.8	2.9118	4.7212	28.964
24300	24328	32.099	1.1275	23103.	3.3129	1374.2	2.9005	4.7377	28.964
24400	24429	32.099	1.1235	23084.	3.3012	1373.6	2.8891	4.7543	28.964
24500	24529	32.098	1.1196	23065.	3.2896	1373.1	2.8778	4.7712	28.964
24600	24629	32.098	1.1156	23046.	3.2781	1372.5	2.8665	4.7881	28.964
24700	24729	32.098	1.1117	23027.	3.2666	1371.9	2.8552	4.8050	28.964
24800	24830	32.098	1.1078	23008.	3.2551	1371.4	2.8440	4.8219	28.964
24900	24930	32.097	1.1039	22990.	3.2436	1370.8	2.8328	4.8390	28.964
25000	25030	32.097	1.0999 + 0	22971.	3.2321 +23	1370.2	2.8216 + 9	4.8561 - 7	28.964
25100	25130	32.097	1.0961	22952.	3.2207	1369.6	2.8105	4.8733	28.964
25200	25230	32.096	1.0922	22933.	3.2094	1369.1	2.7994	4.8906	28.964
25300	25331	32.096	1.0883	22914.	3.1980	1368.5	2.7884	4.9079	28.964
25400	25431	32.096	1.0844	22895.	3.1867	1367.9	2.7773	4.9253	28.964
25500	25531	32.095	1.0804	22876.	3.1754	1367.4	2.7664	4.9428	28.964
25600	25631	32.095	1.0765	22858.	3.1642	1366.8	2.7554	4.9604	28.964
25700	25732	32.095	1.0726	22839.	3.1530	1366.2	2.7445	4.9781	28.964
25800	25832	32.094	1.0687	22820.	3.1418	1365.7	2.7336	4.9958	28.964
25900	25932	32.094	1.0648	22801.	3.1306	1365.1	2.7228	5.0136	28.964
26000	26032	32.094	1.0615 + 0	22782.	3.1195 +23	1364.5	2.7119 + 9	5.0315 - 7	28.964
26100	26133	32.094	1.0577	22763.	3.1084	1363.9	2.7012	5.0495	28.964
26200	26233	32.093	1.0539	22744.	3.0973	1363.4	2.6904	5.0675	28.964
26300	26333	32.093	1.0502	22726.	3.0863	1362.8	2.6797	5.0856	28.964
26400	26433	32.093	1.0464	22707.	3.0753	1362.2	2.6690	5.1039	28.964
26500	26534	32.092	1.0427	22688.	3.0643	1361.7	2.6584	5.1221	28.964
26600	26634	32.092	1.0389	22669.	3.0533	1361.1	2.6478	5.1405	28.964
26700	26734	32.092	1.0352	22650.	3.0424	1360.5	2.6372	5.1590	28.964
26800	26834	32.091	1.0315	22631.	3.0315	1359.9	2.6266	5.1775	28.964
26900	26935	32.091	1.0278	22612.	3.0207	1359.4	2.6161	5.1961	28.964
27000	27035	32.091	1.0241 + 0	22594.	3.0098 +23	1358.8	2.6054 + 9	5.2148 - 7	28.964
27100	27135	32.090	1.0204	22575.	3.0000	1358.2	2.5952	5.2336	28.964
27200	27236	32.090	1.0167	22556.	2.9903	1357.6	2.5860	5.2524	28.964
27300	27336	32.090	1.0131	22537.	2.9775	1357.1	2.5764	5.2714	28.964
27400	27436	32.090	1.0096	22518.	2.9648	1356.5	2.5661	5.2904	28.964
27500	27536	32.089	1.0060	22499.	2.9521	1355.9	2.5557	5.3095	28.964
27600	27637	32.089	1.0021	22480.	2.9405	1355.3	2.5455	5.3287	28.964
27700	27737	32.089	0.9985 - 1	22462.	2.9308	1354.8	2.5352	5.3480	28.964
27800	27837	32.088	0.9950	22443.	2.9223	1354.2	2.5250	5.3674	28.964
27900	27937	32.088	0.9915	22424.	2.9137	1353.6	2.5128	5.3869	28.964
28000	28038	32.088	0.9770 - 1	22405.	2.9052 +23	1353.0	2.5027 + 9	5.4064 - 7	28.964
28100	28138	32.087	0.9642	22386.	2.8927	1352.5	2.4925	5.4260	28.964
28200	28238	32.087	0.9505	22367.	2.8822	1351.9	2.4825	5.4458	28.964
28300	28339	32.087	0.9398	22348.	2.8717	1351.3	2.4724	5.4656	28.964
28400	28439	32.086	0.9343	22329.	2.8613	1350.7	2.4624	5.4855	28.964
28500	28539	32.086	0.9288	22311.	2.8509	1350.2	2.4524	5.5055	28.964
28600	28639	32.086	0.9235	22292.	2.8406	1349.6	2.4424	5.5256	28.964
28700	28740	32.086	0.9182	22273.	2.8302	1349.0	2.4325	5.5457	28.964
28800	28840	32.085	0.9131	22254.	2.8199	1348.4	2.4226	5.5660	28.964
28900	28940	32.085	0.9081	22235.	2.8096	1347.9	2.4128	5.5863	28.964
29000	29040	32.085	0.9231 - 1	22216.	2.7994 +23	1347.3	2.4029 + 9	5.6068 - 7	28.964
29100	29141	32.084	0.9083	22198.	2.7892	1346.7	2.3931	5.6273	28.964
29200	29241	32.084	0.8935	22179.	2.7790	1346.1	2.3834	5.6480	28.964
29300	29341	32.084	0.8789	22160.	2.7688	1345.5	2.3736	5.6687	28.964
29400	29442	32.083	0.8643	22141.	2.7587	1345.0	2.3639	5.6895	28.964
29500	29542	32.083	0.8498	22122.	2.7486	1344.4	2.3543	5.7104	28.964
29600	29642	32.083	0.8355	22103.	2.7385	1343.8	2.3446	5.7314	28.964
29700	29742	32.082	0.8212	22084.	2.7285	1343.2	2.3350	5.7525	28.964
29800	29843	32.082	0.8070	22065.	2.7185	1342.6	2.3254	5.7737	28.964
29900	29943	32.082	0.7930	22047.	2.7085	1342.1	2.3159	5.7950	28.964
30000	30043	32.082	0.7790 - 1	22028.	2.6985 +23	1341.5	2.3064 + 9	5.8166 - 7	28.964
30100	30144	32.081	0.7651	22009.	2.6886	1340.9	2.2969	5.8379	28.964
30200	30244	32.081	0.7513	21990.	2.6787	1340.3	2.2874	5.8595	28.964
30300	30344	32.081	0.7377	21971.	2.6688	1339.7	2.2780	5.8812	28.964
30400	30444	32.080	0.7241	21952.	2.6589	1339.1	2.2686	5.9030	28.964
30500	30545	32.080	0.7106	21933.	2.6491	1338.6	2.2592	5.9249	28.964
30600	30645	32.080	0.6972	21914.	2.6393	1338.0	2.2499	5.9469	28.964
30700	30745	32.079	0.6839	21896.	2.6296	1337.4	2.2406	5.9689	28.964
30800	30846	32.079	0.6706	21877.	2.6198	1336.8	2.2313	5.9911	28.964
30900	30946	32.079	0.6575	21858.	2.6101	1336.2	2.2221	6.0134	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight ω , lb/ft ³ sec ²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
21000	22975	32.103	1.1611 + 0	23352.	3.4499 +25	1381.7	3.0345 + 9	6.3234 - 7	28.964
21100	23074	32.103	1.1770	23334.	3.4579	1381.1	3.0427	6.3391	28.964
21200	23174	32.103	1.1729	23315.	3.4659	1380.4	3.0509	6.3548	28.964
21300	23274	32.102	1.1688	23296.	3.4739	1380.0	3.0592	6.3708	28.964
21400	23374	32.102	1.1647	23277.	3.4820	1379.4	3.0675	6.3867	28.964
21500	23474	32.102	1.1607	23258.	3.4901	1378.9	3.0758	6.4027	28.964
21600	23573	32.101	1.1566	23240.	3.4983	1378.3	3.0842	6.4187	28.964
21700	23673	32.101	1.1526	23221.	3.5064	1377.7	3.0926	6.4349	28.964
21800	23773	32.101	1.1486	23202.	3.5146	1377.2	3.1010	6.4511	28.964
21900	23873	32.100	1.1446	23183.	3.5229	1376.6	3.1095	6.4673	28.964
24000	23972	32.100	1.1406 + 0	23164.	3.5312 +25	1376.0	3.1180 + 9	6.4837 - 7	28.964
24100	24072	32.100	1.1366	23146.	3.5395	1375.3	3.1265	6.5001	28.964
24200	24172	32.100	1.1326	23127.	3.5478	1374.9	3.1351	6.5165	28.964
24300	24272	32.099	1.1286	23108.	3.5561	1374.4	3.1437	6.5331	28.964
24400	24371	32.099	1.1247	23089.	3.5645	1373.8	3.1524	6.5497	28.964
24500	24471	32.099	1.1207	23070.	3.5729	1373.2	3.1610	6.5664	28.964
24600	24571	32.098	1.1168	23052.	3.5814	1372.7	3.1698	6.5832	28.964
24700	24671	32.098	1.1128	23033.	3.5899	1372.1	3.1785	6.6000	28.964
24800	24771	32.098	1.1089	23014.	3.5984	1371.5	3.1873	6.6169	28.964
24900	24870	32.097	1.1050	22995.	3.6070	1371.0	3.1961	6.6339	28.964
25000	24970	32.097	1.1011 + 0	22976.	3.6156 +25	1370.4	3.2050 + 9	6.6510 - 7	28.964
25100	25070	32.097	1.0972	22958.	3.6243	1369.8	3.2139	6.6681	28.964
25200	25170	32.096	1.0934	22939.	3.6329	1369.3	3.2228	6.6853	28.964
25300	25269	32.096	1.0895	22920.	3.6415	1368.7	3.2318	6.7026	28.964
25400	25369	32.096	1.0856	22901.	3.6502	1368.1	3.2408	6.7200	28.964
25500	25469	32.096	1.0818	22882.	3.6589	1367.5	3.2498	6.7374	28.964
25600	25569	32.095	1.0780	22864.	3.6677	1367.0	3.2588	6.7549	28.964
25700	25668	32.095	1.0741	22845.	3.6765	1366.4	3.2679	6.7725	28.964
25800	25768	32.095	1.0703	22826.	3.6853	1365.8	3.2771	6.7901	28.964
25900	25868	32.094	1.0665	22807.	3.6942	1365.3	3.2862	6.8079	28.964
26000	25968	32.094	1.0627 + 0	22788.	3.7031 +25	1364.7	3.2954 + 9	6.8257 - 7	28.964
26100	26067	32.094	1.0589	22769.	3.7120	1364.1	3.3047	6.8436	28.964
26200	26167	32.093	1.0552	22751.	3.7209	1363.6	3.3139	6.8616	28.964
26300	26267	32.093	1.0516	22732.	3.7299	1363.0	3.3232	6.8796	28.964
26400	26367	32.093	1.0477	22713.	3.7389	1362.4	3.3326	6.8978	28.964
26500	26466	32.092	1.0439	22694.	3.7480	1361.9	3.3420	6.9160	28.964
26600	26566	32.092	1.0402	22675.	3.7570	1361.3	3.3514	6.9343	28.964
26700	26666	32.092	1.0365	22657.	3.7661	1360.7	3.3608	6.9526	28.964
26800	26766	32.092	1.0328	22638.	3.7753	1360.1	3.3703	6.9711	28.964
26900	26865	32.091	1.0291	22619.	3.7844	1359.6	3.3798	6.9896	28.964
27000	26965	32.091	1.0254 + 0	22600.	3.7936 +25	1359.0	3.3893 + 9	6.2005 - 7	28.964
27100	27065	32.091	1.0217	22581.	3.8028	1358.4	3.3989	6.2270	28.964
27200	27165	32.090	1.0180	22563.	3.8120	1357.8	3.4085	6.2537	28.964
27300	27264	32.090	1.0144	22544.	3.8213	1357.3	3.4181	6.2806	28.964
27400	27364	32.090	1.0107	22525.	3.8307	1356.7	3.4278	6.3076	28.964
27500	27464	32.089	1.0071	22506.	3.8400	1356.1	3.4375	6.3348	28.964
27600	27564	32.089	1.0035	22487.	3.8494	1355.6	3.4472	6.3621	28.964
27700	27663	32.089	0.9999 - 1	22469.	3.8587	1355.0	3.4570	6.3895	28.964
27800	27763	32.088	0.9964	22450.	3.8682	1354.4	3.4668	6.4170	28.964
27900	27863	32.088	0.9929	22431.	3.8776	1353.8	3.4766	6.4446	28.964
28000	27962	32.088	0.9895 - 1	22412.	3.8871 +25	1353.3	3.4865 + 9	6.4723 - 7	28.964
28100	28062	32.088	0.9860	22393.	3.8966	1352.7	3.4964	6.5001	28.964
28200	28162	32.087	0.9826	22374.	3.9062	1352.1	3.5063	6.5280	28.964
28300	28262	32.087	0.9793	22355.	3.9157	1351.5	3.5163	6.5560	28.964
28400	28361	32.087	0.9760	22337.	3.9253	1351.0	3.5263	6.5840	28.964
28500	28461	32.086	0.9726	22318.	3.9350	1350.4	3.5363	6.6121	28.964
28600	28561	32.086	0.9693	22299.	3.9446	1349.8	3.5463	6.6403	28.964
28700	28661	32.086	0.9661	22280.	3.9543	1349.2	3.5564	6.6686	28.964
28800	28760	32.085	0.9629	22262.	3.9640	1348.7	3.5665	6.6970	28.964
28900	28860	32.085	0.9597	22243.	3.9738	1348.1	3.5767	6.7256	28.964
29000	28960	32.085	0.9567 - 1	22224.	3.9835 +25	1347.5	3.5869 + 9	6.7543 - 7	28.964
29100	29059	32.084	0.9537	22205.	3.9933	1346.9	3.5971	6.7831	28.964
29200	29159	32.084	0.9507	22186.	3.7832	1346.4	3.6073	6.8120	28.964
29300	29259	32.084	0.9478	22168.	3.7730	1345.8	3.6176	6.8410	28.964
29400	29359	32.084	0.9449	22149.	3.7629	1345.2	3.6279	6.8701	28.964
29500	29458	32.083	0.9420	22130.	3.7528	1344.6	3.6383	6.9000	28.964
29600	29558	32.083	0.9391	22111.	3.7427	1344.0	3.6487	6.9299	28.964
29700	29658	32.083	0.9362	22092.	3.7327	1343.5	3.6591	6.9600	28.964
29800	29757	32.082	0.9334	22073.	3.7227	1342.9	3.6695	6.9901	28.964
29900	29857	32.082	0.9307	22055.	3.7127	1342.3	3.6800	7.0203	28.964
30000	29957	32.082	0.9280 - 1	22036.	3.7028 +25	1341.7	3.6905 + 9	7.0507 - 7	28.964
30100	30057	32.081	0.9253	22017.	3.6929	1341.1	3.7010	7.0812	28.964
30200	30156	32.081	0.9226	21998.	3.6830	1340.6	3.7115	7.1118	28.964
30300	30256	32.081	0.9200	21979.	3.6731	1340.0	3.7221	7.1425	28.964
30400	30356	32.080	0.9174	21961.	3.6633	1339.4	3.7327	7.1733	28.964
30500	30455	32.080	0.9149	21942.	3.6535	1338.8	3.7434	7.2041	28.964
30600	30555	32.080	0.9124	21923.	3.6437	1338.2	3.7541	7.2350	28.964
30700	30655	32.080	0.9100	21904.	3.6340	1337.7	3.7648	7.2660	28.964
30800	30755	32.079	0.9075	21885.	3.6242	1337.1	3.7755	7.2971	28.964
30900	30854	32.079	0.9052	21866.	3.6145	1336.5	3.7863	7.3283	28.964

TABLE IV.—Continued
 GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
31000	31046	32.078	8.8445 - 1	21839.	2.6004 +23	1335.7	2.2129 + 9	6.0358 - 7	28.964
31100	31146	32.078	8.8116	21820.	2.5908	1335.1	2.2037	6.0583	28.964
31200	31247	32.078	8.7787	21801.	2.5811	1334.5	2.1945	6.0809	28.964
31300	31347	32.078	8.7460	21782.	2.5715	1333.9	2.1854	6.1036	28.964
31400	31447	32.077	8.7133	21763.	2.5620	1333.3	2.1763	6.1264	28.964
31500	31548	32.077	8.6808	21745.	2.5524	1332.7	2.1673	6.1494	28.964
31600	31648	32.077	8.6483	21726.	2.5429	1332.1	2.1582	6.1724	28.964
31700	31748	32.076	8.6160	21707.	2.5334	1331.6	2.1492	6.1955	28.964
31800	31849	32.076	8.5837	21688.	2.5239	1331.0	2.1403	6.2187	28.964
31900	31949	32.076	8.5515	21669.	2.5145	1330.4	2.1313	6.2421	28.964
32000	32049	32.075	8.5194 - 1	21650.	2.5051 +23	1329.8	2.1224 + 9	6.2655 - 7	28.964
32100	32149	32.075	8.4874	21631.	2.4957	1329.2	2.1135	6.2891	28.964
32200	32250	32.075	8.4555	21612.	2.4863	1328.6	2.1047	6.3128	28.964
32300	32350	32.074	8.4237	21594.	2.4770	1328.0	2.0958	6.3365	28.964
32400	32450	32.074	8.3920	21575.	2.4677	1327.5	2.0871	6.3604	28.964
32500	32551	32.074	8.3604	21556.	2.4584	1326.9	2.0783	6.3844	28.964
32600	32651	32.074	8.3288	21537.	2.4492	1326.3	2.0696	6.4085	28.964
32700	32751	32.073	8.2974	21518.	2.4399	1325.7	2.0608	6.4328	28.964
32800	32852	32.073	8.2660	21499.	2.4308	1325.1	2.0522	6.4571	28.964
32900	32952	32.073	8.2347	21480.	2.4216	1324.5	2.0435	6.4816	28.964
33000	33052	32.072	8.2036 - 1	21461.	2.4124 +23	1323.9	2.0349 + 9	6.5061 - 7	28.964
33100	33153	32.072	8.1725	21443.	2.4033	1323.3	2.0263	6.5308	28.964
33200	33253	32.072	8.1415	21424.	2.3942	1322.8	2.0177	6.5556	28.964
33300	33353	32.071	8.1106	21405.	2.3852	1322.2	2.0092	6.5805	28.964
33400	33454	32.071	8.0798	21385.	2.3761	1321.6	2.0007	6.6056	28.964
33500	33554	32.071	8.0491	21367.	2.3671	1321.0	1.9922	6.6307	28.964
33600	33654	32.070	8.0184	21348.	2.3581	1320.4	1.9838	6.6560	28.964
33700	33755	32.070	7.9879	21329.	2.3492	1319.8	1.9753	6.6814	28.964
33800	33855	32.070	7.9574	21310.	2.3402	1319.2	1.9670	6.7069	28.964
33900	33955	32.070	7.9271	21292.	2.3313	1318.6	1.9586	6.7325	28.964
34000	34056	32.069	7.8968 - 1	21273.	2.3224 +23	1318.0	1.9503 + 9	6.7583 - 7	28.964
34100	34156	32.069	7.8666	21254.	2.3136	1317.4	1.9419	6.7841	28.964
34200	34256	32.069	7.8365	21235.	2.3048	1316.8	1.9337	6.8101	28.964
34300	34357	32.068	7.8065	21216.	2.2960	1316.3	1.9254	6.8362	28.964
34400	34457	32.068	7.7766	21197.	2.2872	1315.7	1.9172	6.8625	28.964
34500	34557	32.068	7.7467	21178.	2.2784	1315.1	1.9090	6.8888	28.964
34600	34658	32.067	7.7170	21159.	2.2697	1314.5	1.9008	6.9153	28.964
34700	34758	32.067	7.6875	21140.	2.2610	1313.9	1.8927	6.9419	28.964
34800	34858	32.067	7.6577	21122.	2.2523	1313.3	1.8846	6.9687	28.964
34900	34959	32.066	7.6283	21103.	2.2437	1312.7	1.8765	6.9956	28.964
35000	35059	32.066	7.5989 - 1	21084.	2.2350 +23	1312.1	1.8684 + 9	7.0225 - 7	28.964
35200	35260	32.066	7.5403	21046.	2.2179	1310.9	1.8524	7.0769	28.964
35400	35461	32.065	7.4821	21008.	2.2008	1309.7	1.8364	7.1318	28.964
35600	35661	32.064	7.4243	20970.	2.1838	1308.5	1.8206	7.1873	28.964
35800	35862	32.064	7.3669	20933.	2.1669	1307.3	1.8049	7.2432	28.964
36000	36062	32.063	7.3096	20895.	2.1502	1306.1	1.7897	7.2997	28.964
36200	36263	32.062	7.2525	20878.	2.1333	1305.6	1.7729	7.3642	28.964
36400	36464	32.062	7.1960	20879.	2.1110	1305.6	1.7560	7.4353	28.964
36600	36664	32.061	7.1702	20879.	2.0908	1305.6	1.7392	7.5072	28.964
36800	36865	32.061	7.1391	20879.	2.0708	1305.6	1.7225	7.5797	28.964
37000	37066	32.060	6.9716 - 1	20880.	2.0509 +23	1305.6	1.7060 + 9	7.6529 - 7	28.964
37200	37266	32.059	6.9048	20880.	2.0313	1305.6	1.6897	7.7268	28.964
37400	37467	32.059	6.8386	20881.	2.0119	1305.6	1.6736	7.8014	28.964
37600	37668	32.058	6.7731	20881.	1.9926	1305.6	1.6575	7.8768	28.964
37800	37869	32.058	6.7081	20881.	1.9736	1305.6	1.6417	7.9529	28.964
38000	38069	32.057	6.6438	20882.	1.9547	1305.6	1.6260	8.0297	28.964
38200	38270	32.056	6.5801	20882.	1.9360	1305.6	1.6106	8.1073	28.964
38400	38471	32.056	6.5171	20883.	1.9175	1305.6	1.5950	8.1856	28.964
38600	38672	32.055	6.4542	20883.	1.8991	1305.6	1.5798	8.2646	28.964
38800	38872	32.054	6.3927	20883.	1.8810	1305.6	1.5647	8.3445	28.964
39000	39073	32.054	6.3315 - 1	20884.	1.8630 +23	1305.6	1.5497 + 9	8.4251 - 7	28.964
39200	39274	32.053	6.2708	20884.	1.8452	1305.6	1.5349	8.5064	28.964
39400	39475	32.053	6.2107	20885.	1.8275	1305.6	1.5202	8.5886	28.964
39600	39675	32.052	6.1511	20885.	1.8100	1305.6	1.5056	8.6716	28.964
39800	39876	32.051	6.0922	20885.	1.7927	1305.6	1.4912	8.7553	28.964
40000	40077	32.051	6.0338	20886.	1.7756	1305.6	1.4770	8.8399	28.964
40200	40278	32.050	5.9759	20886.	1.7586	1305.6	1.4628	8.9253	28.964
40400	40478	32.050	5.9185	20887.	1.7417	1305.6	1.4488	9.0115	28.964
40600	40679	32.049	5.8619	20887.	1.7251	1305.6	1.4350	9.0985	28.964
40800	40880	32.048	5.8057	20887.	1.7086	1305.6	1.4212	9.1864	28.964
41000	41081	32.048	5.7501 - 1	20888.	1.6922 +23	1305.6	1.4077 + 9	9.2751 - 7	28.964
41200	41282	32.047	5.6949	20888.	1.6760	1305.6	1.3942	9.3647	28.964
41400	41482	32.046	5.6404	20889.	1.6600	1305.6	1.3808	9.4552	28.964
41600	41683	32.046	5.5863	20889.	1.6441	1305.6	1.3676	9.5465	28.964
41800	41884	32.045	5.5327	20889.	1.6284	1305.6	1.3546	9.6387	28.964
42000	42085	32.045	5.4797	20890.	1.6128	1305.6	1.3416	9.7318	28.964
42200	42285	32.044	5.4272	20890.	1.5974	1305.6	1.3288	9.8258	28.964
42400	42486	32.043	5.3752	20891.	1.5821	1305.6	1.3160	9.9207	28.964
42600	42687	32.043	5.3236	20891.	1.5670	1305.6	1.3035	1.0017 - 6	28.964
42800	42888	32.042	5.2726	20891.	1.5520	1305.6	1.2910	1.0113	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z, ft	H, ft								
31000	30934	32.079	8.597 - 1	21848.	2.6069 +23	1355.9	2.2171 + 9	6.0233 - 7	28.964
31100	31034	32.078	8.5246	21829.	2.5932	1355.3	2.2079	6.0479	28.964
31200	31133	32.078	8.7940	21810.	2.5856	1354.8	2.1988	6.0704	28.964
31300	31233	32.078	8.7613	21791.	2.5760	1354.2	2.1897	6.0930	28.964
31400	31333	32.077	8.7286	21772.	2.5665	1353.6	2.1806	6.1157	28.964
31500	31432	32.077	8.6962	21753.	2.5569	1353.0	2.1716	6.1385	28.964
31600	31532	32.077	8.6638	21735.	2.5476	1352.4	2.1626	6.1614	28.964
31700	31632	32.076	8.6315	21716.	2.5380	1351.8	2.1536	6.1844	28.964
31800	31732	32.076	8.5993	21697.	2.5285	1351.3	2.1446	6.2073	28.964
31900	31831	32.076	8.5672	21678.	2.5191	1350.7	2.1357	6.2307	28.964
32000	31931	32.076	8.5351 - 1	21660.	2.5097 +23	1350.1	2.1268 + 9	6.2540 - 7	28.964
32100	32031	32.075	8.5032	21641.	2.5003	1349.5	2.1179	6.2773	28.964
32200	32130	32.075	8.4713	21622.	2.4910	1348.9	2.1091	6.3010	28.964
32300	32230	32.075	8.4394	21603.	2.4817	1348.3	2.1003	6.3246	28.964
32400	32329	32.074	8.4079	21584.	2.4726	1347.8	2.0915	6.3484	28.964
32500	32429	32.074	8.3763	21565.	2.4631	1347.2	2.0827	6.3723	28.964
32600	32529	32.074	8.3449	21547.	2.4539	1346.6	2.0740	6.3963	28.964
32700	32629	32.073	8.3135	21528.	2.4447	1346.0	2.0653	6.4204	28.964
32800	32728	32.073	8.2822	21509.	2.4355	1345.4	2.0566	6.4446	28.964
32900	32828	32.073	8.2509	21490.	2.4263	1344.8	2.0480	6.4689	28.964
33000	32928	32.072	8.2198 - 1	21471.	2.4172 +23	1344.2	2.0395 + 9	6.4933 - 7	28.964
33100	33028	32.072	8.1888	21452.	2.4081	1343.6	2.0308	6.5179	28.964
33200	33127	32.072	8.1578	21434.	2.3990	1343.1	2.0223	6.5425	28.964
33300	33227	32.072	8.1270	21415.	2.3900	1342.5	2.0137	6.5673	28.964
33400	33327	32.071	8.0962	21396.	2.3809	1341.9	2.0052	6.5922	28.964
33500	33426	32.071	8.0654	21377.	2.3720	1341.3	1.9968	6.6172	28.964
33600	33526	32.071	8.0350	21358.	2.3630	1340.7	1.9883	6.6423	28.964
33700	33626	32.070	8.0045	21340.	2.3540	1340.1	1.9799	6.6676	28.964
33800	33725	32.070	7.9741	21321.	2.3451	1339.5	1.9715	6.6929	28.964
33900	33825	32.070	7.9438	21302.	2.3362	1338.9	1.9632	6.7184	28.964
34000	33925	32.069	7.9135 - 1	21283.	2.3274 +23	1338.4	1.9549 + 9	6.7430 - 7	28.964
34100	34024	32.069	7.8834	21264.	2.3185	1337.8	1.9466	6.7679	28.964
34200	34124	32.069	7.8533	21245.	2.3097	1337.2	1.9383	6.7935	28.964
34300	34224	32.068	7.8234	21227.	2.3009	1336.6	1.9301	6.8195	28.964
34400	34323	32.068	7.7935	21208.	2.2921	1336.0	1.9218	6.8454	28.964
34500	34423	32.068	7.7637	21189.	2.2834	1335.4	1.9137	6.8718	28.964
34600	34523	32.067	7.7340	21170.	2.2747	1334.8	1.9055	6.8981	28.964
34700	34622	32.067	7.7044	21151.	2.2660	1334.2	1.8975	6.9246	28.964
34800	34722	32.067	7.6749	21132.	2.2573	1333.6	1.8893	6.9512	28.964
34900	34822	32.067	7.6454	21114.	2.2487	1333.0	1.8812	6.9779	28.964
35000	34921	32.066	7.6161 - 1	21095.	2.2401 +23	1332.5	1.8731 + 9	7.0047 - 7	28.964
35100	35021	32.066	7.5874	21077.	2.2317	1331.9	1.8651	7.0317	28.964
35200	35121	32.065	7.5589	21058.	2.2233	1331.3	1.8571	7.0591	28.964
35300	35221	32.065	7.5304	21040.	2.2150	1330.7	1.8492	7.0867	28.964
35400	35321	32.064	7.5020	21021.	2.2067	1330.1	1.8413	7.1146	28.964
35500	35421	32.064	7.4736	21002.	2.1984	1329.5	1.8335	7.1427	28.964
35600	35521	32.063	7.4453	20984.	2.1901	1328.9	1.8257	7.1709	28.964
35700	35621	32.063	7.4170	20965.	2.1818	1328.3	1.8179	7.1992	28.964
35800	35721	32.063	7.3887	20947.	2.1735	1327.7	1.8102	7.2277	28.964
35900	35821	32.062	7.3604	20928.	2.1652	1327.1	1.8025	7.2563	28.964
36000	35921	32.062	7.3321	20910.	2.1569	1326.5	1.7948	7.2850	28.964
36100	36021	32.061	7.3038	20891.	2.1486	1325.9	1.7871	7.3138	28.964
36200	36121	32.061	7.2755	20873.	2.1403	1325.3	1.7794	7.3427	28.964
36300	36221	32.061	7.2472	20854.	2.1320	1324.7	1.7717	7.3717	28.964
36400	36321	32.060	7.2189	20836.	2.1237	1324.1	1.7640	7.4008	28.964
36500	36421	32.060	7.1906	20817.	2.1154	1323.5	1.7563	7.4300	28.964
36600	36521	32.059	7.1623	20799.	2.1071	1322.9	1.7486	7.4593	28.964
36700	36621	32.059	7.1340	20780.	2.0988	1322.3	1.7409	7.4887	28.964
36800	36721	32.058	7.1057	20762.	2.0905	1321.7	1.7332	7.5182	28.964
36900	36821	32.058	7.0774	20743.	2.0822	1321.1	1.7255	7.5478	28.964
37000	36921	32.057	7.0491	20725.	2.0739	1320.5	1.7178	7.5775	28.964
37100	37021	32.057	7.0208	20706.	2.0656	1319.9	1.7101	7.6073	28.964
37200	37121	32.056	6.9925	20688.	2.0573	1319.3	1.7024	7.6372	28.964
37300	37221	32.056	6.9642	20669.	2.0490	1318.7	1.6947	7.6672	28.964
37400	37321	32.055	6.9359	20651.	2.0407	1318.1	1.6870	7.6973	28.964
37500	37421	32.055	6.9076	20632.	2.0324	1317.5	1.6793	7.7275	28.964
37600	37521	32.054	6.8793	20614.	2.0241	1316.9	1.6716	7.7578	28.964
37700	37621	32.054	6.8510	20595.	2.0158	1316.3	1.6639	7.7882	28.964
37800	37721	32.053	6.8227	20577.	2.0075	1315.7	1.6562	7.8187	28.964
37900	37821	32.053	6.7944	20558.	2.0000	1315.1	1.6485	7.8493	28.964
38000	37921	32.052	6.7661	20540.	1.9917	1314.5	1.6408	7.8800	28.964
38100	38021	32.052	6.7378	20521.	1.9834	1313.9	1.6331	7.9108	28.964
38200	38121	32.051	6.7095	20503.	1.9751	1313.3	1.6254	7.9417	28.964
38300	38221	32.051	6.6812	20484.	1.9668	1312.7	1.6177	7.9727	28.964
38400	38321	32.050	6.6529	20466.	1.9585	1312.1	1.6100	8.0038	28.964
38500	38421	32.050	6.6246	20447.	1.9502	1311.5	1.6023	8.0350	28.964
38600	38521	32.049	6.5963	20429.	1.9419	1310.9	1.5946	8.0663	28.964
38700	38621	32.049	6.5680	20410.	1.9336	1310.3	1.5869	8.0977	28.964
38800	38721	32.048	6.5397	20392.	1.9253	1309.7	1.5792	8.1292	28.964
38900	38821	32.048	6.5114	20373.	1.9170	1309.1	1.5715	8.1608	28.964
39000	38921	32.047	6.4831	20355.	1.9087	1308.5	1.5638	8.1925	28.964
39100	39021	32.047	6.4548	20336.	1.9004	1307.9	1.5561	8.2243	28.964
39200	39121	32.046	6.4265	20318.	1.8921	1307.3	1.5484	8.2562	28.964
39300	39221	32.046	6.3982	20299.	1.8838	1306.7	1.5407	8.2882	28.964
39400	39321	32.045	6.3699	20281.	1.8755	1306.1	1.5330	8.3203	28.964
39500	39421	32.045	6.3416	20262.	1.8672	1305.5	1.5253	8.3525	28.964
39600	39521	32.044	6.3133	20244.	1.8589	1304.9	1.5176	8.3848	28.964
39700	39621	32.044	6.2850	20225.	1.8506	1304.3	1.5099	8.4172	28.964
39800	39721	32.043	6.2567	20207.	1.8423	1303.7	1.5022	8.4497	28.964
39900	39821	32.043	6.2284	20188.	1.8340	1303.1	1.4945	8.4823	28.964
40000	39921	32.042	6.2001	20170.	1.8257	1302.5	1.4868	8.5150	28.964
40100	40021	32.042	6.1718	20151.	1.8174	1301.9	1.4791	8.5478	28.964
40200	40121	32.041	6.1435	20133.	1.8091	1301.3	1.4714	8.5807	28.964
40300	40221	32.041	6.1152	20114.	1.8008	1300.7	1.4637	8.6138	28.964
40400	40321	32.040	6.0869	20096.	1.7925	1300.1	1.4560	8.6470	28.964
40500	40421	32.040	6.0586	20077.	1.7842	1299.5	1.4483	8.6803	28.964
40600	40521	32.039	6.0303	20059.	1.7759	1298.9	1.4406	8.7137	28.964
40700	40621	32.039	6.0020	20040.	1.7676	1298.3	1.4329	8.7472	28.964
40800	40721	32.038	5.9737	20022.	1.7593	1297.7	1.4252	8.7808	28.964
40900	40821	32.038	5.9454	20003.	1.7510	1297.1	1.4175	8.8145	28.964
41000	40921	32.037	5.9171	19985.	1.7427	1296.5	1.4098	8.8483	28.964
41100	41021	32.037	5.8888	19966.	1.7344	1295.9	1.4021	8.8822	28.964
41200	41121	32.036	5.8605	19948.	1.7261	1295.3	1.3944	8.9163	28.964
41300	41221	32.036	5.8322	19929.	1.7178	1294.7	1.3867	8.9505	28.964
41400	41321	32.035	5.8039	19911.	1.7095	1294.1	1.3790	8.9848	28.964
41500	41421	32.035	5.7756						

TABLE V.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
43000	43000	32.041	5.2221 - 1	20092.	1.5371 +23	1305.6	1.2784 + 9	1.0211 - 6	28.964
43200	43200	32.041	5.1720	20092.	1.5274	1305.6	1.2664	1.0210	28.964
43400	43400	32.040	5.1224	20093.	1.5079	1305.6	1.2543	1.0409	28.964
43600	43600	32.040	5.0733	20093.	1.4934	1305.6	1.2423	1.0510	28.964
43800	43800	32.039	5.0247	20093.	1.4792	1305.6	1.2304	1.0611	28.964
44000	44000	32.038	4.9765	20094.	1.4650	1305.6	1.2186	1.0714	28.964
44200	44200	32.038	4.9288	20094.	1.4510	1305.6	1.2070	1.0817	28.964
44400	44400	32.037	4.8816	20095.	1.4371	1305.6	1.1954	1.0922	28.964
44600	44600	32.037	4.8348	20095.	1.4234	1305.6	1.1840	1.1027	28.964
44800	44800	32.036	4.7884	20096.	1.4097	1305.6	1.1727	1.1134	28.964
45000	45000	32.035	4.7425 - 1	20096.	1.3963 +23	1305.6	1.1615 + 9	1.1241 - 6	28.964
45200	45200	32.035	4.6971	20096.	1.3829	1305.6	1.1503	1.1350	28.964
45400	45400	32.034	4.6521	20097.	1.3697	1305.6	1.1393	1.1459	28.964
45600	45600	32.033	4.6075	20097.	1.3566	1305.6	1.1284	1.1570	28.964
45800	45800	32.033	4.5633	20098.	1.3436	1305.6	1.1174	1.1682	28.964
46000	46000	32.032	4.5196	20098.	1.3307	1305.6	1.1064	1.1795	28.964
46200	46200	32.032	4.4762	20099.	1.3180	1305.6	1.0964	1.1909	28.964
46400	46400	32.031	4.4333	20099.	1.3054	1305.6	1.0859	1.2024	28.964
46600	46600	32.030	4.3908	20099.	1.2929	1305.6	1.0755	1.2140	28.964
46800	46800	32.030	4.3487	20099.	1.2805	1305.6	1.0652	1.2257	28.964
47000	47100	32.029	4.3070 - 1	20099.	1.2683 +23	1305.6	1.0550 + 9	1.2375 - 6	28.964
47200	47300	32.029	4.2658	20099.	1.2562	1305.6	1.0449	1.2495	28.964
47400	47500	32.028	4.2249	20099.	1.2441	1305.6	1.0349	1.2616	28.964
47600	47700	32.027	4.1844	20099.	1.2322	1305.6	1.0250	1.2738	28.964
47800	47900	32.027	4.1443	20099.	1.2204	1305.6	1.0152	1.2861	28.964
48000	48100	32.026	4.1045	20099.	1.2088	1305.6	1.0055	1.2985	28.964
48200	48300	32.025	4.0652	20099.	1.1972	1305.6	9.9587 + 8	1.3110	28.964
48400	48500	32.025	4.0262	20099.	1.1858	1305.6	9.8435	1.3237	28.964
48600	48700	32.024	3.9876	20099.	1.1746	1305.6	9.7691	1.3365	28.964
48800	48900	32.024	3.9494	20099.	1.1632	1305.6	9.6757	1.3494	28.964
49000	49100	32.023	3.9116 - 1	20099.	1.1520 +23	1305.6	9.5831 + 8	1.3624 - 6	28.964
49200	49300	32.022	3.8741	20099.	1.1410	1305.6	9.4914	1.3756	28.964
49400	49500	32.022	3.8369	20099.	1.1301	1305.6	9.4006	1.3889	28.964
49600	49700	32.021	3.8001	20099.	1.1193	1305.6	9.3107	1.4023	28.964
49800	49900	32.021	3.7637	20099.	1.1086	1305.6	9.2214	1.4158	28.964
50000	50100	32.020	3.7276	20099.	1.0980	1305.6	9.1334	1.4295	28.964
50200	50300	32.019	3.6919	20099.	1.0875	1305.6	9.0460	1.4435	28.964
50400	50500	32.019	3.6565	20099.	1.0771	1305.6	8.9595	1.4572	28.964
50600	50700	32.018	3.6215	20099.	1.0668	1305.6	8.8738	1.4713	28.964
50800	50900	32.017	3.5868	20099.	1.0566	1305.6	8.7889	1.4855	28.964
51000	51100	32.017	3.5524 - 1	20099.	1.0465 +23	1305.6	8.7048 + 8	1.4999 - 6	28.964
51200	51300	32.016	3.5183	20099.	1.0364	1305.6	8.6215	1.5144	28.964
51400	51500	32.016	3.4846	20099.	1.0264	1305.6	8.5390	1.5290	28.964
51600	51700	32.015	3.4512	20099.	1.0167	1305.6	8.4573	1.5438	28.964
51800	51900	32.014	3.4181	20099.	1.0070	1305.6	8.3764	1.5587	28.964
52000	52100	32.014	3.3853	20099.	9.9735 +22	1305.6	8.2963	1.5737	28.964
52200	52300	32.013	3.3529	20099.	9.8781	1305.6	8.2169	1.5889	28.964
52400	52500	32.013	3.3208	20099.	9.7834	1305.6	8.1383	1.6043	28.964
52600	52700	32.012	3.2889	20099.	9.6900	1305.6	8.0605	1.6198	28.964
52800	52900	32.011	3.2574	20099.	9.5973	1305.6	7.9834	1.6354	28.964
53000	53100	32.011	3.2262 - 1	20099.	9.5055 +22	1305.6	7.9070 + 8	1.6512 - 6	28.964
53200	53300	32.010	3.1952	20099.	9.4144	1305.6	7.8313	1.6672	28.964
53400	53500	32.009	3.1646	20099.	9.3245	1305.6	7.7564	1.6833	28.964
53600	53700	32.009	3.1343	20099.	9.2353	1305.6	7.6822	1.6995	28.964
53800	53900	32.008	3.1042	20099.	9.1469	1305.6	7.6087	1.7159	28.964
54000	54100	32.008	3.0745	20099.	9.0594	1305.6	7.5359	1.7325	28.964
54200	54300	32.007	3.0450	20099.	8.9728	1305.6	7.4638	1.7493	28.964
54400	54500	32.006	3.0159	20099.	8.8869	1305.6	7.3924	1.7662	28.964
54600	54700	32.006	2.9869	20099.	8.8019	1305.6	7.3217	1.7832	28.964
54800	54900	32.005	2.9583	20099.	8.7177	1305.6	7.2517	1.8004	28.964
55000	55100	32.005	2.9299 - 1	20099.	8.6343 +22	1305.6	7.1823 + 8	1.8178 - 6	28.964
55200	55300	32.004	2.9018	20099.	8.5517	1305.6	7.1134	1.8354	28.964
55400	55500	32.003	2.8740	20099.	8.4699	1305.6	7.0455	1.8531	28.964
55600	55700	32.003	2.8465	20099.	8.3889	1305.6	6.9781	1.8710	28.964
55800	55900	32.002	2.8192	20099.	8.3086	1305.6	6.9114	1.8891	28.964
56000	56100	32.001	2.7922	20099.	8.2291	1305.6	6.8453	1.9073	28.964
56200	56300	32.001	2.7654	20099.	8.1504	1305.6	6.7798	1.9258	28.964
56400	56500	32.000	2.7389	20099.	8.0724	1305.6	6.7149	1.9446	28.964
56600	56700	32.000	2.7124	20099.	7.9952	1305.6	6.6507	1.9631	28.964
56800	56900	31.999	2.6864	20099.	7.9187	1305.6	6.5870	1.9821	28.964
57000	57100	31.998	2.6609 - 1	20099.	7.8430 +22	1305.6	6.5240 + 8	2.0012 - 6	28.964
57200	57300	31.998	2.6354	20099.	7.7679	1305.6	6.4616	2.0204	28.964
57400	57500	31.997	2.6101	20099.	7.6936	1305.6	6.3998	2.0401	28.964
57600	57700	31.997	2.5851	20099.	7.6200	1305.6	6.3386	2.0598	28.964
57800	57900	31.996	2.5603	20099.	7.5471	1305.6	6.2779	2.0797	28.964
58000	58100	31.995	2.5358	20099.	7.4749	1305.6	6.2179	2.0998	28.964
58200	58300	31.995	2.5115	20099.	7.4034	1305.6	6.1586	2.1201	28.964
58400	58500	31.994	2.4874	20099.	7.3326	1305.6	6.0995	2.1405	28.964
58600	58700	31.993	2.4635	20099.	7.2624	1305.6	6.0411	2.1612	28.964
58800	58900	31.993	2.4399	20099.	7.1930	1305.6	5.9833	2.1821	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z, ft	H, ft								
43000	42912	32.042	5.2444 - 1	20892.	1.5437 +23	1305.6	1.2041 + 9	1.0168 - 6	28.964
43200	43111	32.041	5.1743	20891.	1.5295	1305.6	1.2710	1.0265	28.964
43400	43310	32.041	5.1042	20891.	1.5153	1305.6	1.2367	1.0364	28.964
43600	43509	32.040	5.0344	20891.	1.5000	1305.6	1.2027	1.0461	28.964
43800	43708	32.039	4.9646	20891.	1.4857	1305.6	1.2358	1.0563	28.964
44000	43907	32.039	4.8948	20891.	1.4715	1305.6	1.2281	1.0664	28.964
44200	44107	32.038	4.8251	20891.	1.4575	1305.6	1.2184	1.0769	28.964
44400	44306	32.037	4.7553	20891.	1.4434	1305.6	1.2089	1.0872	28.964
44600	44505	32.037	4.6856	20891.	1.4299	1305.6	1.1994	1.0977	28.964
44800	44704	32.036	4.6158	20891.	1.4163	1305.6	1.1791	1.1082	28.964
45000	44903	32.036	4.5461 - 1	20891.	1.4028 +23	1305.6	1.1649 + 9	1.1189 - 6	28.964
45200	45102	32.035	4.4764	20891.	1.3894	1305.6	1.1558	1.1297	28.964
45400	45301	32.034	4.4067	20891.	1.3762	1305.6	1.1467	1.1405	28.964
45600	45500	32.034	4.3370	20891.	1.3631	1305.6	1.1376	1.1515	28.964
45800	45700	32.033	4.2673	20891.	1.3501	1305.6	1.1285	1.1626	28.964
46000	45899	32.033	4.1976	20891.	1.3372	1305.6	1.1193	1.1737	28.964
46200	46098	32.032	4.1279	20891.	1.3243	1305.6	1.1101	1.1850	28.964
46400	46297	32.031	4.0582	20891.	1.3119	1305.6	1.0993	1.1964	28.964
46600	46496	32.031	3.9885	20891.	1.2994	1305.6	1.0889	1.2079	28.964
46800	46695	32.030	3.9188	20891.	1.2870	1305.6	1.0786	1.2194	28.964
47000	46894	32.030	3.8491 - 1	20891.	1.2747 +23	1305.6	1.0684 + 9	1.2313 - 6	28.964
47200	47093	32.029	3.7794	20891.	1.2626	1305.6	1.0593	1.2431	28.964
47400	47292	32.028	3.7097	20891.	1.2506	1305.6	1.0503	1.2551	28.964
47600	47492	32.028	3.6400	20891.	1.2387	1305.6	1.0413	1.2671	28.964
47800	47691	32.027	3.5703	20891.	1.2269	1305.6	1.0324	1.2793	28.964
48000	47890	32.026	3.5006	20891.	1.2152	1305.6	1.0235	1.2916	28.964
48200	48089	32.026	3.4309	20891.	1.2036	1305.6	1.0147	1.3040	28.964
48400	48288	32.025	3.3612	20891.	1.1922	1305.6	9.9148 + 0	1.3166	28.964
48600	48487	32.025	3.2915	20891.	1.1808	1305.6	9.8223	1.3292	28.964
48800	48686	32.024	3.2218	20891.	1.1696	1305.6	9.7288	1.3420	28.964
49000	48885	32.023	3.1521 - 1	20891.	1.1584 +23	1305.6	9.6361 + 0	1.3549 - 6	28.964
49200	49084	32.023	3.0824	20891.	1.1476	1305.6	9.5444	1.3679	28.964
49400	49283	32.022	3.0127	20891.	1.1365	1305.6	9.4535	1.3811	28.964
49600	49482	32.022	2.9430	20891.	1.1256	1305.6	9.3635	1.3944	28.964
49800	49681	32.021	2.8733	20891.	1.1149	1305.6	9.2743	1.4079	28.964
50000	49880	32.020	2.8036	20891.	1.1043	1305.6	9.1860	1.4213	28.964
50200	50079	32.020	2.7339	20891.	1.0938	1305.6	9.0984	1.4350	28.964
50400	50278	32.019	2.6642	20891.	1.0834	1305.6	9.0120	1.4488	28.964
50600	50477	32.018	2.5945	20891.	1.0731	1305.6	8.9262	1.4627	28.964
50800	50677	32.018	2.5248	20891.	1.0629	1305.6	8.8412	1.4767	28.964
51000	50876	32.017	2.4551 - 1	20891.	1.0527 +23	1305.6	8.7570 + 0	1.4909 - 6	28.964
51200	51075	32.017	2.3854	20891.	1.0427	1305.6	8.6734	1.5053	28.964
51400	51274	32.016	2.3157	20891.	1.0328	1305.6	8.5911	1.5197	28.964
51600	51473	32.015	2.2460	20891.	1.0230	1305.6	8.5093	1.5343	28.964
51800	51672	32.015	2.1763	20891.	1.0132	1305.6	8.4283	1.5491	28.964
52000	51871	32.014	2.1066	20891.	1.0036	1305.6	8.3480	1.5640	28.964
52200	52070	32.014	2.0369	20891.	9.9562 +22	1305.6	8.2686	1.5790	28.964
52400	52269	32.013	1.9672	20891.	9.8854	1305.6	8.1899	1.5942	28.964
52600	52468	32.012	1.8975	20891.	9.8151	1305.6	8.1119	1.6095	28.964
52800	52667	32.012	1.8278	20891.	9.7450	1305.6	8.0347	1.6250	28.964
53000	52866	32.011	1.7581 - 1	20891.	9.6751 +22	1305.6	7.9582 + 0	1.6404 - 6	28.964
53200	53065	32.011	1.6884	20891.	9.6056	1305.6	7.8825	1.6564	28.964
53400	53264	32.010	1.6187	20891.	9.5360	1305.6	7.8074	1.6723	28.964
53600	53463	32.009	1.5490	20891.	9.4665	1305.6	7.7331	1.6883	28.964
53800	53662	32.009	1.4793	20891.	9.3970	1305.6	7.6595	1.7046	28.964
54000	53861	32.008	1.4096	20891.	9.3274	1305.6	7.5866	1.7209	28.964
54200	54060	32.007	1.3399	20891.	9.2579	1305.6	7.5144	1.7375	28.964
54400	54259	32.007	1.2702	20891.	9.1884	1305.6	7.4429	1.7542	28.964
54600	54458	32.006	1.2005	20891.	9.1189	1305.6	7.3721	1.7710	28.964
54800	54657	32.006	1.1308	20891.	9.0494	1305.6	7.3010	1.7880	28.964
55000	54856	32.005	1.0611 - 1	20891.	8.9799 +22	1305.6	7.2324 + 0	1.8052 - 6	28.964
55200	55055	32.004	0.9914	20891.	8.9104	1305.6	7.1634	1.8226	28.964
55400	55254	32.004	0.9217	20891.	8.8409	1305.6	7.0954	1.8401	28.964
55600	55453	32.003	0.8520	20891.	8.7714	1305.6	7.0279	1.8578	28.964
55800	55652	32.003	0.7823	20891.	8.7019	1305.6	6.9610	1.8756	28.964
56000	55851	32.002	0.7126	20891.	8.6324	1305.6	6.8948	1.8936	28.964
56200	56050	32.001	0.6429	20891.	8.5629	1305.6	6.8292	1.9118	28.964
56400	56249	32.001	0.5732	20891.	8.4934	1305.6	6.7642	1.9302	28.964
56600	56448	32.000	0.5035	20891.	8.4239	1305.6	6.6998	1.9487	28.964
56800	56647	31.999	0.4338	20891.	8.3544	1305.6	6.6361	1.9675	28.964
57000	56846	31.999	0.3641 - 1	20891.	8.2849 +22	1305.6	6.5729 + 0	1.9864 - 6	28.964
57200	57045	31.998	0.2944	20891.	8.2154	1305.6	6.5104	2.0054	28.964
57400	57244	31.998	0.2247	20891.	8.1459	1305.6	6.4485	2.0247	28.964
57600	57443	31.997	0.1550	20891.	8.0764	1305.6	6.3871	2.0441	28.964
57800	57642	31.996	0.0853	20891.	8.0069	1305.6	6.3263	2.0638	28.964
58000	57841	31.996	0.0156	20891.	7.9374	1305.6	6.2661	2.0836	28.964
58200	58040	31.995	0.0000	20891.	7.8679	1305.6	6.2065	2.1034	28.964
58400	58239	31.995	0.0000	20891.	7.7984	1305.6	6.1475	2.1230	28.964
58600	58438	31.994	0.0000	20891.	7.7289	1305.6	6.0890	2.1428	28.964
58800	58637	31.993	0.0000	20891.	7.6594	1305.6	6.0311	2.1626	28.964

TABLE X.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
50000	99167	31.992	2.4165 - 1	20924.	7.1261 +22	1305.6	5.9261 + 6	2.2032 - 6	28.964
50200	99269	31.992	2.3934	20924.	7.0560	1305.6	5.8694	2.2244	28.964
50400	99370	31.991	2.3704	20925.	6.985	1305.6	5.8133	2.2459	28.964
50600	99471	31.990	2.3477	20925.	6.9216	1305.6	5.7574	2.2674	28.964
50800	99572	31.989	2.3252	20926.	6.8594	1305.6	5.7026	2.2889	28.964
51000	99673	31.989	2.3029	20926.	6.7988	1305.6	5.6480	2.3116	28.964
51200	99774	31.989	2.2806	20926.	6.7369	1305.6	5.5940	2.3340	28.964
51400	99875	31.988	2.2599	20927.	6.6765	1305.6	5.5403	2.3565	28.964
51600	99977	31.987	2.2373	20927.	6.6168	1305.6	5.4875	2.3793	28.964
51800	100078	31.987	2.2159	20928.	6.5587	1305.6	5.4350	2.4023	28.964
52000	100179	31.986	2.1944 - 1	20928.	6.5012 +22	1305.6	5.3830 + 6	2.4255 - 6	28.964
52200	100280	31.985	2.1734	20928.	6.4453	1305.6	5.3315	2.4489	28.964
52400	100381	31.985	2.1528	20929.	6.3902	1305.6	5.2805	2.4725	28.964
52600	100482	31.984	2.1321	20929.	6.3357	1305.6	5.2299	2.4964	28.964
52800	100583	31.984	2.1117	20930.	6.2817	1305.6	5.1799	2.5205	28.964
53000	100684	31.983	2.0915	20930.	6.2283	1305.6	5.1304	2.5449	28.964
53200	100785	31.982	2.0714	20930.	6.1755	1305.6	5.0813	2.5695	28.964
53400	100886	31.982	2.0515	20931.	6.1231	1305.6	5.0327	2.5943	28.964
53600	100987	31.981	2.0319	20931.	6.0712	1305.6	4.9845	2.6193	28.964
53800	101088	31.981	2.0124	20932.	6.0200	1305.6	4.9368	2.6446	28.964
54000	101189	31.980	1.9931 - 1	20932.	5.9693 +22	1305.6	4.8896 + 6	2.6702 - 6	28.964
54200	101290	31.979	1.9740	20933.	5.9191	1305.6	4.8428	2.6960	28.964
54400	101391	31.979	1.9551	20933.	5.8693	1305.6	4.7965	2.7220	28.964
54600	101492	31.978	1.9363	20933.	5.8200	1305.6	4.7506	2.7483	28.964
54800	101593	31.977	1.9178	20934.	5.7712	1305.6	4.7052	2.7749	28.964
55000	101694	31.977	1.8994	20934.	5.7229	1305.6	4.6602	2.8017	28.964
55200	101795	31.976	1.8812	20935.	5.6751	1305.6	4.6156	2.8287	28.964
55400	101896	31.976	1.8632	20935.	5.6278	1305.6	4.5714	2.8560	28.964
55600	101997	31.975	1.8453	20935.	5.5810	1305.6	4.5277	2.8836	28.964
55800	102098	31.974	1.8276	20936.	5.5346	1305.6	4.4844	2.9115	28.964
56000	102199	31.974	1.8101 - 1	20936.	5.4887 +22	1305.6	4.4415 + 6	2.9396 - 6	28.964
56200	102300	31.973	1.7927	20937.	5.4433	1305.6	4.3990	2.9680	28.964
56400	102401	31.973	1.7754	20937.	5.3983	1305.6	4.3569	2.9967	28.964
56600	102502	31.972	1.7583	20937.	5.3537	1305.6	4.3152	3.0256	28.964
56800	102603	31.971	1.7412	20938.	5.3095	1305.6	4.2739	3.0546	28.964
57000	102704	31.971	1.7241	20938.	5.2657	1306.0	4.2319	3.0840	28.964
57200	102805	31.970	1.7071	20938.	5.2224	1306.2	4.1909	3.1147	28.964
57400	102906	31.969	1.6902	20942.	5.1796	1306.3	4.1502	3.1474	28.964
57600	103007	31.969	1.6734	20946.	5.1373	1306.5	4.1100	3.1789	28.964
57800	103108	31.968	1.6571	20975.	5.0955	1306.7	4.0702	3.2104	28.964
58000	103209	31.968	1.6406 - 1	20981.	5.0540 +22	1306.9	4.0307 + 6	3.2423 - 6	28.964
58200	103310	31.967	1.6244	20987.	5.0130	1307.1	4.0917	3.2745	28.964
58400	103411	31.966	1.6087	20994.	4.9723	1307.3	4.0530	3.3069	28.964
58600	103512	31.966	1.5932	21000.	4.9319	1307.4	4.0148	3.3397	28.964
58800	103613	31.965	1.5772	21006.	4.8918	1307.4	3.9769	3.3729	28.964
59000	103714	31.965	1.5617	21012.	4.8519	1307.8	3.9394	3.4063	28.964
59200	103815	31.964	1.5463	21019.	4.8122	1308.0	3.9023	3.4400	28.964
59400	103916	31.963	1.5311	21025.	4.7727	1308.2	3.8655	3.4741	28.964
59600	104017	31.963	1.5161	21031.	4.7333	1308.4	3.8291	3.5085	28.964
59800	104118	31.962	1.5012	21036.	4.6940	1308.5	3.7930	3.5432	28.964
60000	104219	31.961	1.4864 - 1	21044.	4.6548 +22	1308.7	3.7574 + 6	3.5783 - 6	28.964
60200	104320	31.961	1.4718	21050.	4.6157	1308.9	3.7220	3.6137	28.964
60400	104421	31.960	1.4574	21056.	4.5768	1309.1	3.6871	3.6495	28.964
60600	104522	31.960	1.4431	21063.	4.5380	1309.3	3.6524	3.6854	28.964
60800	104623	31.959	1.4289	21069.	4.4993	1309.5	3.6182	3.7220	28.964
61000	104724	31.958	1.4149	21075.	4.4607	1309.6	3.5842	3.7588	28.964
61200	104825	31.958	1.4011	21082.	4.4222	1309.8	3.5506	3.7959	28.964
61400	104926	31.957	1.3873	21088.	4.3838	1310.0	3.5173	3.8334	28.964
61600	105027	31.957	1.3737	21094.	4.3455	1310.2	3.4844	3.8713	28.964
61800	105128	31.956	1.3603	21101.	4.3073	1310.4	3.4518	3.9095	28.964
62000	105229	31.955	1.3470 - 1	21107.	4.2693 +22	1310.6	3.4195 + 6	3.9481 - 6	28.964
62200	105330	31.955	1.3338	21113.	4.2314	1310.7	3.3875	3.9870	28.964
62400	105431	31.954	1.3207	21119.	4.1936	1310.9	3.3558	4.0263	28.964
62600	105532	31.953	1.3078	21126.	4.1559	1311.1	3.3245	4.0661	28.964
62800	105633	31.953	1.2950	21132.	4.1183	1311.3	3.2935	4.1061	28.964
63000	105734	31.952	1.2823	21138.	4.0808	1311.5	3.2627	4.1464	28.964
63200	105835	31.952	1.2698	21145.	4.0434	1311.6	3.2323	4.1873	28.964
63400	105936	31.951	1.2574	21151.	4.0061	1311.8	3.2022	4.2287	28.964
63600	106037	31.950	1.2451	21157.	3.9689	1312.0	3.1724	4.2703	28.964
63800	106138	31.950	1.2330	21164.	3.9317	1312.2	3.1429	4.3124	28.964
64000	106239	31.949	1.2209 - 1	21170.	3.8946 +22	1312.4	3.1136 + 6	4.3548 - 6	28.964
64200	106340	31.949	1.2090	21176.	3.8576	1312.6	3.0847	4.3977	28.964
64400	106441	31.948	1.1972	21183.	3.8207	1312.7	3.0560	4.4409	28.964
64600	106542	31.947	1.1855	21189.	3.7839	1312.9	3.0276	4.4844	28.964
64800	106643	31.947	1.1739	21195.	3.7472	1313.1	3.0005	4.5287	28.964
65000	106744	31.946	1.1625	21201.	3.7106	1313.3	2.9737	4.5732	28.964
65200	106845	31.945	1.1512	21208.	3.6741	1313.5	2.9472	4.6181	28.964
65400	106946	31.945	1.1399	21214.	3.6376	1313.7	2.9210	4.6635	28.964
65600	107047	31.944	1.1288	21220.	3.6012	1313.8	2.8951	4.7093	28.964
65800	107148	31.944	1.1178	21227.	3.5649	1314.0	2.8693	4.7555	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
51000	50834	31.993	2.4340 - 1	20924.	7.1016 +21	1305.6	5.9737 + 0	2.1054 - 6	28.964
51200	50932	31.992	2.4320	20925.	7.1131	1305.6	5.9149	2.2044	28.964
51400	51231	31.992	2.3898	20925.	7.0454	1305.6	5.8604	2.2370	28.964
51600	51630	31.991	2.3470	20925.	6.9785	1305.6	5.8058	2.2692	28.964
51800	51639	31.990	2.3044	20925.	6.9120	1305.6	5.7509	2.2700	28.964
60000	59626	31.990	2.3221	20926.	6.9462	1305.6	5.6997	2.3524	28.964
60200	60027	31.989	2.3000	20926.	6.9011	1305.6	5.6408	2.3196	28.964
60400	60226	31.988	2.2780	20927.	6.8560	1305.6	5.5871	2.3368	28.964
60600	60424	31.988	2.2563	20927.	6.8327	1305.6	5.5346	2.3549	28.964
60800	60623	31.987	2.2348	20927.	6.8095	1305.6	5.4813	2.3619	28.964
61000	60822	31.987	2.2135 - 1	20928.	6.8266 +22	1305.6	5.4292 + 0	2.4048 - 6	28.964
61200	61021	31.986	2.1924	20928.	6.8447	1305.6	5.3776	2.4279	28.964
61400	61220	31.985	2.1715	20928.	6.8532	1305.6	5.3264	2.4512	28.964
61600	61419	31.985	2.1500	20929.	6.8423	1305.6	5.2757	2.4747	28.964
61800	61617	31.984	2.1285	20929.	6.8200	1305.6	5.2256	2.4985	28.964
62000	61816	31.984	2.1100	20930.	6.8223	1305.6	5.1759	2.5225	28.964
62200	62015	31.983	2.0899	20930.	6.8131	1305.6	5.1267	2.5467	28.964
62400	62214	31.982	2.0700	20931.	6.8045	1305.6	5.0779	2.5712	28.964
62600	62413	31.982	2.0503	20931.	6.8044	1305.6	5.0296	2.5959	28.964
62800	62611	31.981	2.0308	20931.	5.7889	1305.6	4.9810	2.6208	28.964
63000	62810	31.981	2.0114 - 1	20932.	5.9320 +22	1305.6	4.9344 + 0	2.6459 - 6	28.964
63200	63009	31.980	1.9922	20932.	5.9754	1305.6	4.8875	2.6715	28.964
63400	63208	31.979	1.9733	20933.	5.9197	1305.6	4.8410	2.6970	28.964
63600	63407	31.979	1.9545	20933.	5.9043	1305.6	4.7950	2.7229	28.964
63800	63605	31.978	1.9358	20933.	5.9095	1305.6	4.7494	2.7490	28.964
64000	63804	31.977	1.9174	20934.	5.8552	1305.6	4.7042	2.7754	28.964
64200	64003	31.977	1.8991	20934.	5.8015	1305.6	4.6595	2.8021	28.964
64400	64202	31.976	1.8810	20935.	5.8482	1305.6	4.6152	2.8290	28.964
64600	64400	31.976	1.8631	20935.	5.8955	1305.6	4.5713	2.8561	28.964
64800	64599	31.975	1.8454	20935.	5.8432	1305.6	4.5278	2.8835	28.964
65000	64798	31.974	1.8278 - 1	20936.	5.3915 +22	1305.6	4.4848 + 0	2.9112 - 6	28.964
65200	64997	31.974	1.8104	20936.	5.3402	1305.6	4.4422	2.9391	28.964
65400	65196	31.973	1.7931	20937.	5.2895	1305.6	4.3999	2.9674	28.964
65600	65394	31.973	1.7760	20937.	5.2391	1305.6	4.3581	2.9958	28.964
65800	65593	31.972	1.7591	20937.	5.1893	1305.6	4.3167	3.0246	28.964
66000	65792	31.971	1.7429	20943.	5.1387	1305.6	4.2751	3.0534	28.964
66200	65991	31.971	1.7269	20949.	5.0885	1306.0	4.2339	3.0825	28.964
66400	66189	31.970	1.7100	20955.	5.0387	1306.1	4.1931	3.1150	28.964
66600	66388	31.970	1.6913	20962.	4.9895	1306.5	4.1527	3.1457	28.964
66800	66587	31.969	1.6747	20968.	4.9407	1306.5	4.1127	3.1768	28.964
67000	66785	31.968	1.6583 - 1	20974.	4.8925 +22	1306.7	4.0731 + 0	3.2081 - 6	28.964
67200	66984	31.968	1.6421	20980.	4.8447	1306.9	4.0339	3.2396	28.964
67400	67183	31.967	1.6260	20987.	4.7974	1307.1	3.9950	3.2717	28.964
67600	67382	31.966	1.6101	20993.	4.7506	1307.2	3.9564	3.3039	28.964
67800	67580	31.966	1.5944	20999.	4.7042	1307.6	3.9185	3.3365	28.964
68000	67779	31.965	1.5788	21005.	4.6584	1307.6	3.8809	3.3694	28.964
68200	67978	31.965	1.5634	21012.	4.6129	1307.6	3.8434	3.4025	28.964
68400	68176	31.964	1.5481	21018.	4.5680	1308.0	3.8066	3.4360	28.964
68600	68375	31.963	1.5330	21024.	4.5234	1308.1	3.7700	3.4698	28.964
68800	68574	31.963	1.5180	21030.	4.4794	1308.5	3.7338	3.5040	28.964
69000	68772	31.962	1.5032 - 1	21037.	4.4358 +22	1308.5	3.6988 + 0	3.5384 - 6	28.964
69200	68971	31.962	1.4886	21043.	4.3926	1308.7	3.6625	3.5732	28.964
69400	69170	31.961	1.4744	21049.	4.3498	1308.9	3.6274	3.6083	28.964
69600	69368	31.960	1.4597	21055.	4.3075	1309.1	3.5926	3.6438	28.964
69800	69567	31.960	1.4454	21062.	4.2656	1309.2	3.5581	3.6794	28.964
70000	69764	31.959	1.4314	21068.	4.2241	1309.4	3.5240	3.7157	28.964
70200	69964	31.959	1.4174	21074.	4.1830	1309.6	3.4902	3.7522	28.964
70400	70163	31.958	1.4034	21081.	4.1426	1309.8	3.4568	3.7890	28.964
70600	70362	31.957	1.3899	21087.	4.1021	1310.8	3.4237	3.8262	28.964
70800	70560	31.957	1.3764	21093.	4.0623	1310.1	3.3909	3.8637	28.964
71000	70759	31.956	1.3630 - 1	21099.	4.0228 +22	1310.3	3.3584 + 0	3.9016 - 6	28.964
71200	70958	31.955	1.3498	21106.	3.9838	1310.5	3.3263	3.9399	28.964
71400	71156	31.955	1.3364	21112.	3.9451	1310.7	3.2944	3.9785	28.964
71600	71355	31.954	1.3236	21118.	3.9069	1310.9	3.2629	4.0175	28.964
71800	71554	31.954	1.3108	21124.	3.8690	1311.1	3.2317	4.0568	28.964
72000	71752	31.953	1.2981	21131.	3.8316	1311.2	3.2008	4.0965	28.964
72200	71951	31.952	1.2854	21137.	3.7943	1311.4	3.1703	4.1364	28.964
72400	72150	31.952	1.2730	21143.	3.7575	1311.6	3.1400	4.1771	28.964
72600	72348	31.951	1.2606	21149.	3.7211	1311.8	3.1100	4.2180	28.964
72800	72547	31.951	1.2484	21156.	3.6851	1312.0	3.0803	4.2592	28.964
73000	72745	31.950	1.2363 - 1	21162.	3.6494 +22	1312.1	3.0509 + 0	4.3009 - 6	28.964
73200	72944	31.949	1.2243	21168.	3.6141	1312.3	3.0218	4.3429	28.964
73400	73143	31.949	1.2124	21174.	3.5791	1312.5	2.9930	4.3853	28.964
73600	73341	31.948	1.2007	21181.	3.5445	1312.7	2.9644	4.4282	28.964
73800	73540	31.948	1.1890	21187.	3.5102	1312.9	2.9362	4.4714	28.964
74000	73738	31.947	1.1775	21193.	3.4763	1313.1	2.9082	4.5151	28.964
74200	73937	31.946	1.1661	21199.	3.4427	1313.2	2.8805	4.5591	28.964
74400	74135	31.946	1.1548	21206.	3.4094	1313.4	2.8530	4.6034	28.964
74600	74334	31.945	1.1434	21212.	3.3765	1313.6	2.8259	4.6485	28.964
74800	74533	31.944	1.1326	21218.	3.3439	1313.8	2.7990	4.6938	28.964

TABLE X.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
75000	75271	31.903	1.1070 - 1	21235.	2.2606 +22	1314.2	2.7367 + 8	4.0022 - 4	28.964
75200	75472	31.902	1.0952	21239.	2.2607	1314.4	2.7101	4.0493	28.964
75400	75674	31.902	1.0835	21244.	2.2602	1314.6	2.6845	4.0969	28.964
75600	75875	31.901	1.0750	21252.	2.2601	1314.8	2.6588	4.1449	28.964
75800	76077	31.901	1.0665	21259.	2.2600	1315.0	2.6334	4.1934	28.964
76000	76279	31.900	1.0581	21264.	2.2600	1315.1	2.6082	4.2423	28.964
76200	76479	31.900	1.0499	21271.	2.2600	1315.3	2.5832	4.2917	28.964
76400	76681	31.900	1.0430	21277.	2.2600	1315.5	2.5585	4.3416	28.964
76600	76882	31.900	1.0367	21283.	2.2600	1315.7	2.5340	4.3919	28.964
76800	77084	31.900	1.0313	21290.	2.2600	1315.8	2.5098	4.4428	28.964
77000	77285	31.900	1.0260	21294.	2.2600 +22	1316.0	2.4858	4.4941	28.964
77200	77487	31.900	1.0217	21302.	2.2600	1316.2	2.4621	4.5459	28.964
77400	77688	31.900	1.0175	21309.	2.2600	1316.4	2.4386	4.5982	28.964
77600	77890	31.900	1.0135	21315.	2.2600	1316.6	2.4153	4.6510	28.964
77800	78091	31.900	1.0095	21321.	2.2600	1316.8	2.3923	4.7043	28.964
78000	78293	31.900	1.0055	21326.	2.2600	1316.9	2.3696	4.7580	28.964
78200	78494	31.900	1.0016	21334.	2.2600	1317.1	2.3468	4.8124	28.964
78400	78696	31.900	0.9978	21340.	2.2600	1317.3	2.3244	4.8672	28.964
78600	78897	31.900	0.9941	21346.	2.2600	1317.5	2.3023	4.9225	28.964
78800	79099	31.900	0.9904	21353.	2.2600	1317.7	2.2803	4.9784	28.964
79000	79300	31.900	0.9867	21359.	2.2600 +22	1317.8	2.2584	5.0348	28.964
79200	79502	31.900	0.9830	21365.	2.2600	1318.0	2.2371	5.0917	28.964
79400	79703	31.900	0.9793	21372.	2.2600	1318.2	2.2158	5.1492	28.964
79600	79905	31.900	0.9756	21378.	2.2600	1318.4	2.1947	5.2072	28.964
79800	80107	31.900	0.9720	21384.	2.2600	1318.6	2.1738	5.2658	28.964
80000	80308	31.900	0.9684	21391.	2.2600	1318.8	2.1531	5.3249	28.964
80200	80510	31.900	0.9648	21397.	2.2600	1318.9	2.1326	5.3846	28.964
80400	80711	31.900	0.9612	21403.	2.2600	1319.1	2.1124	5.4448	28.964
80600	80913	31.900	0.9576	21410.	2.2600	1319.3	2.0923	5.5056	28.964
80800	81114	31.900	0.9540	21416.	2.2600	1319.5	2.0726	5.5670	28.964
81000	81316	31.900	0.9504	21422.	2.2600 +22	1319.7	2.0527	5.6290	28.964
81200	81517	31.900	0.9468	21429.	2.2600	1319.8	2.0332	5.6915	28.964
81400	81719	31.900	0.9432	21435.	2.2600	1320.0	2.0139	5.7547	28.964
81600	81921	31.900	0.9396	21441.	2.2600	1320.2	1.9946	5.8184	28.964
81800	82122	31.900	0.9360	21447.	2.2600	1320.4	1.9756	5.8828	28.964
82000	82324	31.900	0.9324	21454.	2.2600	1320.6	1.9567	5.9477	28.964
82200	82525	31.900	0.9288	21460.	2.2600	1320.8	1.9380	6.0133	28.964
82400	82727	31.900	0.9252	21466.	2.2600	1320.9	1.9191	6.0795	28.964
82600	82928	31.900	0.9216	21473.	2.2600	1321.1	1.9009	6.1463	28.964
82800	83130	31.900	0.9180	21479.	2.2600	1321.3	1.8839	6.2137	28.964
83000	83332	31.900	0.9144	21485.	2.2600 +22	1321.5	1.8660	6.2818	28.964
83200	83533	31.900	0.9108	21492.	2.2600	1321.7	1.8484	6.3505	28.964
83400	83735	31.900	0.9072	21498.	2.2600	1321.8	1.8308	6.4199	28.964
83600	83937	31.900	0.9036	21504.	2.2600	1322.0	1.8135	6.4899	28.964
83800	84138	31.900	0.9000	21511.	2.2600	1322.2	1.7963	6.5604	28.964
84000	84340	31.900	0.8964	21517.	2.2600	1322.4	1.7793	6.6319	28.964
84200	84541	31.900	0.8928	21523.	2.2600	1322.6	1.7625	6.7039	28.964
84400	84743	31.900	0.8892	21530.	2.2600	1322.8	1.7458	6.7766	28.964
84600	84945	31.900	0.8856	21536.	2.2600	1322.9	1.7293	6.8500	28.964
84800	85146	31.900	0.8820	21542.	2.2600	1323.1	1.7130	6.9241	28.964
85000	85348	31.900	0.8784	21549.	2.2600 +22	1323.3	1.6968	7.0000	28.964
85200	85550	31.900	0.8748	21555.	2.2600	1323.5	1.6808	7.0763	28.964
85400	85751	31.900	0.8712	21561.	2.2600	1323.7	1.6649	7.1535	28.964
85600	85953	31.900	0.8676	21567.	2.2600	1323.8	1.6492	7.2317	28.964
85800	86154	31.900	0.8640	21574.	2.2600	1324.0	1.6336	7.3109	28.964
86000	86356	31.900	0.8604	21580.	2.2600	1324.2	1.6182	7.3913	28.964
86200	86558	31.900	0.8568	21586.	2.2600	1324.4	1.6029	7.4728	28.964
86400	86759	31.900	0.8532	21593.	2.2600	1324.6	1.5878	7.5552	28.964
86600	86961	31.900	0.8496	21599.	2.2600	1324.7	1.5728	7.6386	28.964
86800	87163	31.900	0.8460	21605.	2.2600	1324.9	1.5580	7.7231	28.964
87000	87364	31.900	0.8424	21612.	2.2600 +22	1325.1	1.5433	7.8088	28.964
87200	87566	31.900	0.8388	21618.	2.2600	1325.3	1.5288	7.8951	28.964
87400	87768	31.900	0.8352	21624.	2.2600	1325.5	1.5144	7.9827	28.964
87600	87970	31.900	0.8316	21631.	2.2600	1325.7	1.5001	8.0717	28.964
87800	88171	31.900	0.8280	21637.	2.2600	1325.8	1.4860	8.1623	28.964
88000	88373	31.900	0.8244	21643.	2.2600	1326.0	1.4720	8.2545	28.964
88200	88575	31.900	0.8208	21650.	2.2600	1326.2	1.4581	8.3482	28.964
88400	88776	31.900	0.8172	21656.	2.2600	1326.4	1.4444	8.4435	28.964
88600	88978	31.900	0.8136	21662.	2.2600	1326.6	1.4308	8.5405	28.964
88800	89180	31.900	0.8100	21669.	2.2600	1326.7	1.4176	8.6389	28.964
89000	89381	31.900	0.8064	21675.	2.2600 +22	1326.9	1.4041	8.7388	28.964
89200	89583	31.900	0.8028	21681.	2.2600	1327.1	1.3909	8.8400	28.964
89400	89785	31.900	0.7992	21688.	2.2600	1327.3	1.3778	8.9425	28.964
89600	89987	31.900	0.7956	21694.	2.2600	1327.5	1.3649	9.0464	28.964
89800	90188	31.900	0.7920	21700.	2.2600	1327.6	1.3520	9.1517	28.964
90000	90390	31.900	0.7884	21707.	2.2600	1327.8	1.3394	9.2584	28.964
90200	90592	31.900	0.7848	21713.	2.2600	1328.0	1.3268	9.3665	28.964
90400	90794	31.900	0.7812	21719.	2.2600	1328.2	1.3143	9.4760	28.964
90600	90995	31.900	0.7776	21725.	2.2600	1328.4	1.3020	9.5870	28.964
90800	91197	31.900	0.7740	21732.	2.2600	1328.5	1.2898	9.7000	28.964

TABLE II.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
75000	74731	31.946	1.1216 - 1	21224.	3.3116 +22	1316.0	2.7723 + 8	4.7366 - 6	28.964
75200	74930	31.943	1.1190	21231.	3.2797	1316.1	2.7639	4.7653	28.964
75400	75128	31.943	1.1000	21237.	3.2480	1316.3	2.7498	4.8324	28.964
75600	75327	31.942	1.0894	21243.	3.2167	1316.5	2.7360	4.8794	28.964
75800	75525	31.941	1.0789	21250.	3.1857	1316.7	2.7224	4.9270	28.964
76000	75724	31.941	1.0685	21256.	3.1550	1316.9	2.7090	4.9749	28.964
76200	75923	31.940	1.0581	21262.	3.1246	1317.0	2.6957	5.0233	28.964
76400	76121	31.940	1.0479	21268.	3.0945	1317.2	2.6826	5.0722	28.964
76600	76320	31.939	1.0378	21275.	3.0647	1317.4	2.6696	5.1215	28.964
76800	76519	31.938	1.0278	21281.	3.0352	1317.6	2.6568	5.1713	28.964
77000	76717	31.938	1.0179 - 1	21287.	3.0059 +22	1317.8	2.6440	5.2215 - 6	28.964
77200	76915	31.937	1.0081	21293.	2.9770	1318.0	2.6314	5.2723	28.964
77400	77114	31.937	0.9984 - 2	21300.	2.9484	1318.1	2.6191	5.3235	28.964
77600	77312	31.936	0.9887	21306.	2.9200	1318.3	2.6069	5.3752	28.964
77800	77511	31.935	0.9792	21312.	2.8918	1318.5	2.5949	5.4274	28.964
78000	77709	31.935	0.9699	21318.	2.8642	1318.7	2.5827	5.4800	28.964
78200	77908	31.934	0.9605	21325.	2.8366	1318.9	2.5709	5.5332	28.964
78400	78106	31.933	0.9512	21331.	2.8094	1319.0	2.5591	5.5869	28.964
78600	78305	31.933	0.9420	21337.	2.7824	1319.2	2.5475	5.6410	28.964
78800	78503	31.932	0.9329	21343.	2.7557	1319.4	2.5359	5.6957	28.964
79000	78702	31.932	0.9240 - 2	21350.	2.7293 +22	1319.6	2.5241 + 8	5.7509 - 6	28.964
79200	78900	31.931	0.9146	21356.	2.7031	1319.8	2.5124	5.8064	28.964
79400	79099	31.930	0.9054	21362.	2.6771	1319.9	2.5008	5.8620	28.964
79600	79297	31.930	0.8964	21368.	2.6515	1320.1	2.4894	5.9179	28.964
79800	79494	31.929	0.8874	21375.	2.6261	1320.3	2.4781	5.9749	28.964
80000	79694	31.929	0.8786	21381.	2.6009	1320.5	2.4669	6.0321	28.964
80200	79891	31.928	0.8703	21387.	2.5760	1320.7	2.4558	6.0895	28.964
80400	80089	31.927	0.8620	21394.	2.5515	1320.8	2.4448	6.1472	28.964
80600	80289	31.927	0.8537	21400.	2.5269	1321.0	2.4339	6.2052	28.964
80800	80488	31.926	0.8457	21406.	2.5027	1321.2	2.4231	6.2635	28.964
81000	80687	31.926	0.8365 - 2	21412.	2.4787 +22	1321.4	2.4124 + 8	6.3221 - 6	28.964
81200	80885	31.925	0.8280	21419.	2.4550	1321.6	2.4018	6.3813	28.964
81400	81083	31.924	0.8204	21425.	2.4315	1321.7	2.3914	6.4408	28.964
81600	81282	31.924	0.8128	21431.	2.4083	1321.9	2.3811	6.5005	28.964
81800	81480	31.923	0.8053	21437.	2.3853	1322.1	2.3709	6.5604	28.964
82000	81679	31.922	0.7979	21444.	2.3625	1322.3	2.3608	6.6205	28.964
82200	81877	31.922	0.7907	21450.	2.3399	1322.5	2.3508	6.6808	28.964
82400	82076	31.921	0.7835	21456.	2.3174	1322.6	2.3409	6.7413	28.964
82600	82274	31.921	0.7764	21462.	2.2954	1322.8	2.3311	6.8020	28.964
82800	82473	31.920	0.7693	21469.	2.2735	1323.0	2.3213	6.8629	28.964
83000	82671	31.919	0.7621 - 2	21475.	2.2518 +22	1323.2	2.3116 + 8	6.9241 - 6	28.964
83200	82869	31.919	0.7549	21481.	2.2304	1323.4	2.3020	6.9856	28.964
83400	83068	31.918	0.7478	21487.	2.2091	1323.5	2.2925	7.0473	28.964
83600	83266	31.918	0.7406	21494.	2.1880	1323.7	2.2831	7.1092	28.964
83800	83465	31.917	0.7335	21500.	2.1672	1323.9	2.2737	7.1713	28.964
84000	83663	31.916	0.7263	21506.	2.1465	1324.1	2.2644	7.2336	28.964
84200	83861	31.916	0.7192	21513.	2.1261	1324.3	2.2551	7.2961	28.964
84400	84060	31.915	0.7123	21519.	2.1058	1324.4	2.2459	7.3588	28.964
84600	84258	31.915	0.7054	21525.	2.0856	1324.6	2.2367	7.4217	28.964
84800	84457	31.914	0.6987	21531.	2.0660	1324.8	2.2276	7.4848	28.964
85000	84655	31.913	0.6920 - 2	21538.	2.0463 +22	1325.0	2.2186 + 8	7.5480 - 6	28.964
85200	84853	31.913	0.6850	21544.	2.0268	1325.2	2.2096	7.6113	28.964
85400	85052	31.912	0.6782	21550.	2.0074	1325.3	2.2007	7.6748	28.964
85600	85250	31.912	0.6716	21556.	1.9885	1325.5	2.1918	7.7384	28.964
85800	85448	31.911	0.6650	21563.	1.9696	1325.7	2.1830	7.8021	28.964
86000	85647	31.910	0.6585	21569.	1.9509	1325.9	2.1742	7.8659	28.964
86200	85845	31.910	0.6521	21575.	1.9323	1326.1	2.1655	7.9300	28.964
86400	86043	31.909	0.6457	21581.	1.9140	1326.2	2.1568	7.9942	28.964
86600	86242	31.908	0.6394	21588.	1.8958	1326.4	2.1481	8.0586	28.964
86800	86440	31.908	0.6332	21594.	1.8778	1326.6	2.1395	8.1232	28.964
87000	86639	31.907	0.6272 - 2	21600.	1.8600 +22	1326.8	2.1310 + 8	8.1880 - 6	28.964
87200	86837	31.907	0.6213	21607.	1.8424	1327.0	2.1225	8.2530	28.964
87400	87035	31.906	0.6155	21613.	1.8249	1327.1	2.1141	8.3181	28.964
87600	87234	31.905	0.6097	21619.	1.8076	1327.3	2.1057	8.3834	28.964
87800	87432	31.905	0.6040	21625.	1.7905	1327.5	2.0974	8.4488	28.964
88000	87630	31.904	0.5984	21632.	1.7735	1327.7	2.0891	8.5144	28.964
88200	87829	31.904	0.5928	21638.	1.7567	1327.9	2.0809	8.5801	28.964
88400	88027	31.903	0.5873	21645.	1.7401	1328.0	2.0727	8.6460	28.964
88600	88225	31.902	0.5818	21650.	1.7236	1328.2	2.0646	8.7120	28.964
88800	88423	31.902	0.5765	21657.	1.7073	1328.4	2.0565	8.7781	28.964
89000	88622	31.901	0.5712 - 2	21663.	1.6912 +22	1328.6	2.0485 + 8	8.8443 - 6	28.964
89200	88820	31.901	0.5660	21669.	1.6752	1328.8	2.0405	8.9106	28.964
89400	89018	31.900	0.5608	21675.	1.6594	1329.0	2.0326	8.9770	28.964
89600	89217	31.899	0.5557	21682.	1.6437	1329.1	2.0247	9.0435	28.964
89800	89415	31.899	0.5506	21688.	1.6281	1329.3	2.0168	9.1101	28.964
90000	89613	31.898	0.5455	21694.	1.6126	1329.5	2.0090	9.1768	28.964
90200	89812	31.897	0.5404	21701.	1.5975	1329.7	2.0012	9.2436	28.964
90400	90010	31.897	0.5354	21707.	1.5825	1329.8	2.0000	9.3105	28.964
90600	90208	31.896	0.5304	21713.	1.5675	1330.0	2.0000	9.3775	28.964
90800	90406	31.896	0.5254	21719.	1.5527	1330.2	2.0000	9.4446	28.964

TABLE X.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
91000	91000	31.000	3.1000 - 2	21750.	1.5000 +21	1320.7	1.2777 + 0	1.0399 - 3	20.960
91200	91201	31.003	3.0553	21760.	1.5050	1320.9	1.2657	1.0499	20.960
91400	91402	31.005	3.0071	21751.	1.5007	1321.1	1.2539	1.0600	20.960
91600	91604	31.002	2.9595	21727.	1.5007	1321.3	1.2421	1.0701	20.960
91800	91804	31.001	2.9123	21703.	1.5027	1321.5	1.2305	1.0804	20.960
92000	92005	31.001	2.8655	21770.	1.5090	1321.6	1.2190	1.0908	20.960
92200	92209	31.000	2.8192	21776.	1.5253	1321.8	1.2074	1.1012	20.960
92400	92411	31.000	2.7730	21762.	1.5416	1321.9	1.1963	1.1116	20.960
92600	92613	31.000	2.7266	21799.	1.5579	1320.2	1.1851	1.1224	20.960
92800	92815	31.000	2.6803	21795.	1.5851	1320.5	1.1740	1.1332	20.960
93000	93417	31.000	2.6336 - 2	21801.	1.5720 +22	1320.5	1.1630 + 0	1.1440 - 5	20.960
93200	93618	31.007	2.5865	21800.	1.5800	1320.7	1.1522	1.1550	20.960
93400	93820	31.004	2.5399	21814.	1.5901	1320.9	1.1414	1.1660	20.960
93600	94022	31.004	2.4977	21820.	1.5939	1321.1	1.1307	1.1772	20.960
93800	94224	31.005	2.4609	21827.	1.5987	1321.2	1.1202	1.1884	20.960
94000	94426	31.005	2.4225	21835.	1.5982	1321.4	1.1097	1.1998	20.960
94200	94627	31.004	2.3846	21839.	1.5950	1321.6	1.0994	1.2113	20.960
94400	94829	31.003	2.3466	21846.	1.5885	1321.8	1.0891	1.2228	20.960
94600	95031	31.003	2.3079	21852.	1.5776	1322.0	1.0789	1.2345	20.960
94800	95233	31.002	2.2571	21858.	1.5594	1322.1	1.0689	1.2463	20.960
95000	95435	31.002	2.2148 - 2	21865.	1.5275 +22	1322.3	1.0589 + 0	1.2582 - 5	20.960
95200	95637	31.001	2.1740	21871.	1.5257	1322.5	1.0490	1.2702	20.960
95400	95839	31.000	2.1373	21877.	1.5240	1322.7	1.0393	1.2823	20.960
95600	96040	31.000	2.0990	21884.	1.5226	1322.9	1.0294	1.2946	20.960
95800	96242	31.000	2.0593	21890.	1.5210	1323.0	1.0200	1.3069	20.960
96000	96444	31.000	2.0209	21896.	1.5194	1323.2	1.0105	1.3196	20.960
96200	96646	31.000	1.9828	21903.	1.5178	1323.4	1.0011	1.3320	20.960
96400	96848	31.000	1.9452	21909.	1.5163	1323.6	0.9917 + 7	1.3447	20.960
96600	97050	31.000	1.9079	21915.	1.5142	1323.8	0.9825	1.3575	20.960
96800	97251	31.000	1.8709	21922.	1.5123	1323.9	0.9734	1.3704	20.960
97000	97453	31.000	1.8343 - 2	21928.	1.5105 +22	1324.1	0.9645 + 7	1.3834 - 5	20.960
97200	97655	31.000	1.7981	21934.	1.5120	1324.3	0.9559	1.3960	20.960
97400	97857	31.000	1.7622	21941.	1.5132	1324.5	0.9471	1.4089	20.960
97600	98059	31.000	1.7267	21947.	1.5107	1324.7	0.9371	1.4233	20.960
97800	98261	31.000	1.6915	21953.	1.5092	1324.8	0.9290	1.4369	20.960
98000	98463	31.000	1.6567	21960.	1.5082	1325.0	0.9208	1.4505	20.960
98200	98665	31.000	1.6222	21966.	1.5071	1325.2	0.9118	1.4643	20.960
98400	98867	31.000	1.5880	21972.	1.5060	1325.4	0.9037	1.4782	20.960
98600	99069	31.000	1.5542	21979.	1.5050	1325.6	0.8949	1.4923	20.960
98800	99270	31.000	1.5206	21985.	1.5049	1325.7	0.8868	1.5064	20.960
99000	99472	31.000	1.4875 - 2	21991.	1.5032 +22	1325.9	0.8786 + 7	1.5208 - 5	20.960
99200	99674	31.000	1.4546	21998.	1.5024	1326.1	0.8702	1.5352	20.960
99400	99876	31.000	1.4221	22004.	1.5018	1326.3	0.8625	1.5498	20.960
99600	100078	31.000	1.3899	22010.	1.5013	1326.5	0.8546	1.5645	20.960
99800	100280	31.000	1.3579	22017.	1.5003 +21	1326.6	0.8465	1.5793	20.960
100000	100482	31.000	1.3263	22023.	1.5000	1326.8	0.8385	1.5943	20.960
100200	100684	31.000	1.2950	22029.	1.5000	1327.0	0.8304	1.6094	20.960
100400	100886	31.000	1.2640	22036.	1.5000	1327.2	0.8230	1.6247	20.960
100600	101088	31.000	1.2333	22042.	1.5000	1327.4	0.8154	1.6400	20.960
100800	101290	31.000	1.2029	22048.	1.5000	1327.5	0.8079	1.6556	20.960
101000	101492	31.000	1.1728 - 2	22055.	1.5015 +21	1327.7	0.8002 + 7	1.6713 - 5	20.960
101200	101694	31.000	1.1430	22061.	1.5036	1327.9	0.7930	1.6871	20.960
101400	101895	31.000	1.1134	22067.	1.5062	1328.1	0.7859	1.7031	20.960
101600	102097	31.000	1.0842	22074.	1.5090	1328.3	0.7789	1.7192	20.960
101800	102299	31.000	1.0552	22080.	1.5120	1328.5	0.7719	1.7354	20.960
102000	102501	31.000	1.0265	22086.	1.5155	1328.6	0.7641	1.7519	20.960
102200	102703	31.000	0.9981	22093.	1.5195	1328.8	0.7564	1.7684	20.960
102400	102905	31.000	0.9700	22099.	1.5240	1329.0	0.7487	1.7851	20.960
102600	103107	31.000	0.9421	22105.	1.5290	1329.2	0.7411	1.8020	20.960
102800	103309	31.000	0.9145	22112.	1.5340	1329.3	0.7336	1.8190	20.960
103000	103511	31.000	0.8872 - 2	22118.	1.5390 +21	1329.5	0.7260 + 7	1.8362 - 5	20.960
103200	103713	31.000	0.8601	22124.	1.5440	1329.7	0.7185	1.8535	20.960
103400	103915	31.000	0.8333	22131.	1.5490	1329.9	0.7111	1.8710	20.960
103600	104117	31.000	0.8068	22137.	1.5540	1330.0	0.7037	1.8887	20.960
103800	104319	31.000	0.7805	22143.	1.5590	1330.2	0.6964	1.9065	20.960
104000	104521	31.000	0.7545	22150.	1.5640	1330.4	0.6891	1.9245	20.960
104200	104723	31.000	0.7287	22156.	1.5690	1330.6	0.6818	1.9427	20.960
104400	104925	31.000	0.7032	22162.	1.5740	1330.8	0.6745	1.9610	20.960
104600	105127	31.000	0.6779	22169.	1.5790	1331.0	0.6673	1.9795	20.960
104800	105329	31.000	0.6528	22175.	1.5840	1331.1	0.6601	1.9981	20.960
105000	105531	31.000	0.6279 - 2	22182.	1.5890 +21	1331.3	0.6526 + 7	2.0170 - 5	20.960
105200	105733	31.000	0.6030	22188.	1.5940	1331.5	0.6451	2.0362	20.960
105400	105935	31.000	0.5783	22194.	1.5990	1331.7	0.6376	2.0557	20.960
105600	106137	31.000	0.5538	22200.	1.6040	1331.9	0.6301	2.0753	20.960
105800	106339	31.000	0.5294	22206.	1.6090	1332.1	0.6226	2.0951	20.960
106000	106541	31.000	0.5051	22212.	1.6140	1332.3	0.6151	2.1150	20.960
106200	106743	31.000	0.4809	22218.	1.6190	1332.5	0.6076	2.1350	20.960
106400	106945	31.000	0.4568	22224.	1.6240	1332.7	0.6001	2.1551	20.960
106600	107147	31.000	0.4328	22230.	1.6290	1332.9	0.5926	2.1753	20.960
106800	107349	31.000	0.4089	22236.	1.6340	1333.1	0.5851	2.1956	20.960
107000	107551	31.000	0.3851	22242.	1.6390	1333.3	0.5776	2.2160	20.960
107200	107753	31.000	0.3614	22248.	1.6440	1333.5	0.5701	2.2365	20.960
107400	107955	31.000	0.3378	22254.	1.6490	1333.7	0.5626	2.2571	20.960
107600	108157	31.000	0.3143	22260.	1.6540	1333.9	0.5551	2.2778	20.960
107800	108359	31.000	0.2909	22266.	1.6590	1334.1	0.5476	2.2985	20.960
108000	108561	31.000	0.2676	22272.	1.6640	1334.3	0.5401	2.3193	20.960
108200	108763	31.000	0.2443	22278.	1.6690	1334.5	0.5326	2.3402	20.960
108400	108965	31.000	0.2211	22284.	1.6740	1334.7	0.5251	2.3612	20.960
108600	109167	31.000	0.1980	22290.	1.6790	1334.9	0.5176	2.3823	20.960
108800	109369	31.000	0.1750	22296.	1.6840	1335.1	0.5101	2.4035	20.960
109000	109571	31.000	0.1521	22302.	1.6890	1335.3	0.5026	2.4248	20.960
109200	109773	31.000	0.1293	22308.	1.6940	1335.5	0.4951	2.4462	20.960
109400	109975	31.000	0.1066	22314.	1.6990	1335.7	0.4876	2.4677	20.960
109600	110177	31.000	0.0840	22320.	1.7040	1335.9	0.4801	2.4893	20.960
109800	110379	31.000	0.0615	22326.	1.7090	1336.1	0.4726	2.5110	20.960
110000	110581	31.000	0.0391	22332.	1.7140	1336.3	0.4651	2.5328	20.960
110200	110783	31.000	0.0168	22338.	1.7190	1336.5	0.4576	2.5547	20.960
110400	110985	31.000	0.0000	22344.	1.7240	1336.7	0.4501	2.5767	20.960

TABLE V.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
91000	90605	31.895	3.2016 - 2	21726.	1.3301 +22	1320.6	1.3017 + 0	1.0235 - 5	28.964
91100	90693	31.894	3.1923	21732.	1.3234	1320.5	1.2994	1.0262	28.964
91200	90781	31.894	3.1831	21738.	1.3167	1320.7	1.2974	1.0289	28.964
91300	90869	31.893	3.1738	21744.	1.3100	1320.9	1.2954	1.0316	28.964
91400	90957	31.893	3.1646	21751.	1.3033	1321.1	1.2934	1.0343	28.964
91500	91045	31.892	3.1554	21757.	1.2966	1321.3	1.2914	1.0370	28.964
91600	91133	31.891	3.1462	21763.	1.2899	1321.4	1.2894	1.0397	28.964
91700	91221	31.891	3.1370	21770.	1.2832	1321.6	1.2874	1.0424	28.964
91800	91309	31.890	3.1278	21776.	1.2765	1321.8	1.2854	1.0451	28.964
91900	91397	31.890	3.1186	21782.	1.2698	1322.0	1.2834	1.0478	28.964
92000	91485	31.889	3.1094	21788.	1.2631	1322.2	1.2814	1.0505	28.964
92100	91573	31.888	3.1002	21795.	1.2564	1322.4	1.2794	1.0532	28.964
92200	91661	31.888	3.0910	21801.	1.2497	1322.5	1.2774	1.0559	28.964
92300	91749	31.887	3.0818	21807.	1.2430	1322.7	1.2754	1.0586	28.964
92400	91837	31.887	3.0726	21813.	1.2363	1322.9	1.2734	1.0613	28.964
92500	91925	31.886	3.0634	21820.	1.2296	1323.1	1.2714	1.0640	28.964
92600	92013	31.886	3.0542	21826.	1.2229	1323.2	1.2694	1.0667	28.964
92700	92101	31.885	3.0450	21832.	1.2162	1323.4	1.2674	1.0694	28.964
92800	92189	31.885	3.0358	21838.	1.2095	1323.6	1.2654	1.0721	28.964
92900	92277	31.884	3.0266	21845.	1.2028	1323.8	1.2634	1.0748	28.964
93000	92365	31.884	3.0174	21851.	1.1961	1324.0	1.2614	1.0775	28.964
93100	92453	31.883	3.0082	21857.	1.1894	1324.1	1.2594	1.0802	28.964
93200	92541	31.883	3.0000	21864.	1.1827	1324.3	1.2574	1.0829	28.964
93300	92629	31.882	2.9918	21870.	1.1760	1324.5	1.2554	1.0856	28.964
93400	92717	31.882	2.9836	21876.	1.1693	1324.7	1.2534	1.0883	28.964
93500	92805	31.881	2.9754	21882.	1.1626	1324.9	1.2514	1.0910	28.964
93600	92893	31.881	2.9672	21888.	1.1559	1325.1	1.2494	1.0937	28.964
93700	92981	31.880	2.9590	21895.	1.1492	1325.2	1.2474	1.0964	28.964
93800	93069	31.880	2.9508	21901.	1.1425	1325.4	1.2454	1.0991	28.964
93900	93157	31.879	2.9426	21907.	1.1358	1325.6	1.2434	1.1018	28.964
94000	93245	31.879	2.9344	21913.	1.1291	1325.8	1.2414	1.1045	28.964
94100	93333	31.878	2.9262	21919.	1.1224	1326.0	1.2394	1.1072	28.964
94200	93421	31.878	2.9180	21925.	1.1157	1326.2	1.2374	1.1099	28.964
94300	93509	31.877	2.9098	21932.	1.1090	1326.4	1.2354	1.1126	28.964
94400	93597	31.877	2.9016	21938.	1.1023	1326.6	1.2334	1.1153	28.964
94500	93685	31.876	2.8934	21944.	1.0956	1326.8	1.2314	1.1180	28.964
94600	93773	31.876	2.8852	21951.	1.0889	1327.0	1.2294	1.1207	28.964
94700	93861	31.875	2.8770	21957.	1.0822	1327.2	1.2274	1.1234	28.964
94800	93949	31.875	2.8688	21963.	1.0755	1327.4	1.2254	1.1261	28.964
94900	94037	31.874	2.8606	21969.	1.0688	1327.6	1.2234	1.1288	28.964
95000	94125	31.874	2.8524	21975.	1.0621	1327.8	1.2214	1.1315	28.964
95100	94213	31.874	2.8442	21982.	1.0554	1328.0	1.2194	1.1342	28.964
95200	94301	31.873	2.8360	21988.	1.0487	1328.2	1.2174	1.1369	28.964
95300	94389	31.873	2.8278	21994.	1.0420	1328.4	1.2154	1.1396	28.964
95400	94477	31.872	2.8196	21999.	1.0353	1328.6	1.2134	1.1423	28.964
95500	94565	31.872	2.8114	22005.	1.0286	1328.8	1.2114	1.1450	28.964
95600	94653	31.871	2.8032	22011.	1.0219	1329.0	1.2094	1.1477	28.964
95700	94741	31.871	2.7950	22017.	1.0152	1329.2	1.2074	1.1504	28.964
95800	94829	31.870	2.7868	22023.	1.0085	1329.4	1.2054	1.1531	28.964
95900	94917	31.870	2.7786	22029.	1.0018	1329.6	1.2034	1.1558	28.964
96000	95005	31.869	2.7704	22035.	9.951	1329.8	1.2014	1.1585	28.964
96100	95093	31.869	2.7622	22041.	9.894	1330.0	1.2000	1.1612	28.964
96200	95181	31.868	2.7540	22047.	9.837	1330.2	1.1980	1.1639	28.964
96300	95269	31.868	2.7458	22053.	9.780	1330.4	1.1960	1.1666	28.964
96400	95357	31.867	2.7376	22059.	9.723	1330.6	1.1940	1.1693	28.964
96500	95445	31.867	2.7294	22065.	9.666	1330.8	1.1920	1.1720	28.964
96600	95533	31.866	2.7212	22071.	9.609	1331.0	1.1900	1.1747	28.964
96700	95621	31.866	2.7130	22077.	9.552	1331.2	1.1880	1.1774	28.964
96800	95709	31.865	2.7048	22083.	9.495	1331.4	1.1860	1.1801	28.964
96900	95797	31.865	2.6966	22089.	9.438	1331.6	1.1840	1.1828	28.964
97000	95885	31.864	2.6884	22095.	9.381	1331.8	1.1820	1.1855	28.964
97100	95973	31.864	2.6802	22101.	9.324	1332.0	1.1800	1.1882	28.964
97200	96061	31.863	2.6720	22107.	9.267	1332.2	1.1780	1.1909	28.964
97300	96149	31.863	2.6638	22113.	9.210	1332.4	1.1760	1.1936	28.964
97400	96237	31.862	2.6556	22119.	9.153	1332.6	1.1740	1.1963	28.964
97500	96325	31.862	2.6474	22125.	9.096	1332.8	1.1720	1.1990	28.964
97600	96413	31.861	2.6392	22131.	9.039	1333.0	1.1700	1.2017	28.964
97700	96501	31.861	2.6310	22137.	8.982	1333.2	1.1680	1.2044	28.964
97800	96589	31.860	2.6228	22143.	8.925	1333.4	1.1660	1.2071	28.964
97900	96677	31.860	2.6146	22149.	8.868	1333.6	1.1640	1.2098	28.964
98000	96765	31.859	2.6064	22155.	8.811	1333.8	1.1620	1.2125	28.964
98100	96853	31.859	2.5982	22161.	8.754	1334.0	1.1600	1.2152	28.964
98200	96941	31.858	2.5900	22167.	8.697	1334.2	1.1580	1.2179	28.964
98300	97029	31.858	2.5818	22173.	8.640	1334.4	1.1560	1.2206	28.964
98400	97117	31.857	2.5736	22179.	8.583	1334.6	1.1540	1.2233	28.964
98500	97205	31.857	2.5654	22185.	8.526	1334.8	1.1520	1.2260	28.964
98600	97293	31.856	2.5572	22191.	8.469	1335.0	1.1500	1.2287	28.964
98700	97381	31.856	2.5490	22197.	8.412	1335.2	1.1480	1.2314	28.964
98800	97469	31.855	2.5408	22203.	8.355	1335.4	1.1460	1.2341	28.964
98900	97557	31.855	2.5326	22209.	8.298	1335.6	1.1440	1.2368	28.964
99000	97645	31.854	2.5244	22215.	8.241	1335.8	1.1420	1.2395	28.964
99100	97733	31.854	2.5162	22221.	8.184	1336.0	1.1400	1.2422	28.964
99200	97821	31.853	2.5080	22227.	8.127	1336.2	1.1380	1.2449	28.964
99300	97909	31.853	2.4998	22233.	8.070	1336.4	1.1360	1.2476	28.964
99400	97997	31.852	2.4916	22239.	8.013	1336.6	1.1340	1.2503	28.964
99500	98085	31.852	2.4834	22245.	7.956	1336.8	1.1320	1.2530	28.964
99600	98173	31.851	2.4752	22251.	7.899	1337.0	1.1300	1.2557	28.964
99700	98261	31.851	2.4670	22257.	7.842	1337.2	1.1280	1.2584	28.964
99800	98349	31.850	2.4588	22263.	7.785	1337.4	1.1260	1.2611	28.964
99900	98437	31.850	2.4506	22269.	7.728	1337.6	1.1240	1.2638	28.964
100000	98525	31.849	2.4424	22275.	7.671	1337.8	1.1220	1.2665	28.964
100100	98613	31.849	2.4342	22281.	7.614	1338.0	1.1200	1.2692	28.964
100200	98701	31.848	2.4260	22287.	7.557	1338.2	1.1180	1.2719	28.964
100300	98789	31.848	2.4178	22293.	7.500	1338.4	1.1160	1.2746	28.964
100400	98877	31.847	2.4096	22299.	7.443	1338.6	1.1140	1.2773	28.964
100500	98965	31.847	2.4014	22305.	7.386	1338.8	1.1120	1.2800	28.964
100600	99053	31.846	2.3932	22311.	7.329	1339.0	1.1100	1.2827	28.964
100700	99141	31.846	2.3850	22317.	7.272	1339.2	1.1080	1.2854	28.964
100800	99229	31.845	2.3768	22323.	7.215	1339.4	1.1060	1.2881	28.964
100900	99317	31.845	2.3686	22329.	7.158	1339.6	1.1040	1.2908	28.964
101000	99405	31.844	2.3604	22335.	7.101	1339.8	1.1020	1.2935	28.964
101100	99493	31.844	2.3522	22341.	7.044	1340.0	1.1000	1.2962	28.964
101200	99581	31.843	2.3440	22347.	6.987	1340.2	1.0980	1.2989	28.964
101300	99669	31.843	2.3358	22353.	6.930	1340.4	1.0960	1.3016	28.964
101400	99757	31.842	2.3276	22359.	6.873	1340.6	1.0940	1.3043	28.964
101500	99845	31.842	2.3194	22365.	6.816	1340.8	1.0920	1.3070	28.964
101600	99933								

TABLE II.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
110000	110505	31.033	2.0970 - 2	22607.	6.0966 +21	1333.8	5.2562 + 7	2.5766 - 5	28.964
110500	111009	31.034	2.0966	22609.	6.0959	1333.8	5.1375	2.6276	28.964
111000	111514	31.032	1.9000	22612.	6.0900	1336.3	5.0193	2.7016	28.964
111500	112019	31.031	1.9120	22735.	6.0769	1337.3	4.9046	2.7678	28.964
112000	112525	31.029	1.8003	22777.	6.0582	1350.7	4.7925	2.8351	28.964
112500	113110	31.028	1.8260	22820.	6.0450	1360.0	4.6832	2.9039	28.964
113000	113616	31.026	1.7507	22862.	6.0271	1361.2	4.5765	2.9743	28.964
113500	114121	31.025	1.7500	22905.	6.0125	1362.6	4.4726	3.0462	28.964
114000	114627	31.023	1.6975	22947.	6.0010	1363.7	4.3710	3.1190	28.964
114500	115132	31.022	1.6575	22990.	6.0126	1364.9	4.2720	3.1950	28.964
115000	115638	31.020	1.6185 - 2	23032.	6.0072 +21	1366.1	4.1754 + 7	3.2718 - 5	28.964
115500	116143	31.019	1.5805	23075.	6.0067	1367.3	4.0812	3.3504	28.964
116000	116649	31.017	1.5436	23117.	6.0051	1368.6	3.9882	3.4307	28.964
116500	117155	31.016	1.5073	23160.	6.0032	1369.0	3.8995	3.5128	28.964
117000	117660	31.014	1.4720	23202.	6.0016	1371.0	3.8126	3.5966	28.964
117500	118164	31.012	1.4377	23245.	6.0004	1372.3	3.7265	3.6824	28.964
118000	118672	31.011	1.4042	23288.	6.0003	1373.5	3.6422	3.7700	28.964
118500	119177	31.009	1.3716	23330.	6.0007	1374.7	3.5618	3.8594	28.964
119000	119683	31.008	1.3397	23373.	6.0007	1375.9	3.4834	3.9511	28.964
119500	120189	31.006	1.3087	23415.	6.0007	1377.1	3.4069	4.0446	28.964
120000	120695	31.005	1.2786 - 2	23458.	6.0011 +21	1378.4	3.3293 + 7	4.1401 - 5	28.964
120500	121200	31.003	1.2490	23500.	6.0030	1379.6	3.2534	4.2378	28.964
121000	121706	31.002	1.2201	23543.	6.0106	1380.8	3.1836	4.3375	28.964
121500	122212	31.000	1.1921	23586.	6.0255	1382.0	3.1130	4.4394	28.964
122000	122718	31.999	1.1647	23628.	6.0405	1383.2	3.0463	4.5434	28.964
122500	123224	31.997	1.1380	23671.	6.0554	1384.4	2.9773	4.6500	28.964
123000	123730	31.996	1.1119	23714.	6.0703	1385.6	2.9110	4.7587	28.964
123500	124235	31.995	1.0865	23756.	6.0853	1386.9	2.8479	4.8697	28.964
124000	124742	31.993	1.0617	23799.	6.1003	1388.1	2.7855	4.9831	28.964
124500	125248	31.991	1.0376	23841.	6.0782	1389.3	2.7266	5.0990	28.964
125000	125754	31.989	1.0140 - 2	23884.	6.0004 +21	1390.5	2.6651 + 7	5.2173 - 5	28.964
125500	126260	31.988	0.9900 - 3	23927.	6.0003	1391.7	2.6070	5.3382	28.964
126000	126766	31.986	0.9653	23969.	6.0730	1392.9	2.5503	5.4617	28.964
126500	127272	31.985	0.9403	24012.	6.0469	1394.1	2.4949	5.5878	28.964
127000	127778	31.983	0.9152	24055.	6.0217	1395.3	2.4408	5.7165	28.964
127500	128284	31.982	0.8900	24097.	6.0039	1396.5	2.3880	5.8481	28.964
128000	128791	31.980	0.8646	24140.	6.0236	1397.7	2.3364	5.9826	28.964
128500	129297	31.979	0.8392	24182.	6.0468	1398.9	2.2860	6.1195	28.964
129000	129803	31.977	0.8138	24225.	6.0705	1400.1	2.2367	6.2596	28.964
129500	130309	31.976	0.7881	24268.	6.0914	1401.3	2.1886	6.4024	28.964
130000	130816	31.974	0.7623 - 3	24310.	6.0004 +21	1402.5	2.1417 + 7	6.5487 - 5	28.964
130500	131322	31.973	0.7364	24353.	6.0236	1403.7	2.0959	6.6978	28.964
131000	131828	31.971	0.7106	24396.	6.0468	1404.9	2.0509	6.8500	28.964
131500	132335	31.970	0.6847	24439.	6.0705	1406.1	2.0071	7.0054	28.964
132000	132841	31.968	0.6587	24481.	6.0914	1407.3	1.9643	7.1641	28.964
132500	133347	31.966	0.6326	24524.	6.0653	1408.5	1.9225	7.3261	28.964
133000	133854	31.965	0.6065	24567.	6.0892	1409.7	1.8817	7.4915	28.964
133500	134360	31.963	0.5803	24609.	6.0630	1410.9	1.8418	7.6603	28.964
134000	134867	31.962	0.5541	24652.	6.0869	1412.0	1.8028	7.8327	28.964
134500	135373	31.960	0.5279	24695.	6.0607	1413.2	1.7646	8.0084	28.964
135000	135880	31.959	0.5017 - 3	24737.	6.0846 +21	1414.4	1.7274 + 7	8.1882 - 5	28.964
135500	136386	31.957	0.4755	24780.	6.0584	1415.6	1.6910	8.3714	28.964
136000	136893	31.956	0.4493	24823.	6.0322	1416.8	1.6554	8.5585	28.964
136500	137399	31.954	0.4231	24866.	6.0560	1418.0	1.6207	8.7494	28.964
137000	137906	31.953	0.3969	24908.	6.0797	1419.2	1.5867	8.9443	28.964
137500	138413	31.951	0.3707	24951.	6.0535	1420.3	1.5535	9.1431	28.964
138000	138919	31.950	0.3445	24994.	6.0772	1421.5	1.5210	9.3460	28.964
138500	139426	31.948	0.3183	25036.	6.0510	1422.7	1.4893	9.5531	28.964
139000	139933	31.947	0.2921	25079.	6.0747	1423.9	1.4582	9.7644	28.964
139500	140440	31.945	0.2659	25122.	6.0484	1425.1	1.4279	9.9801	28.964
140000	140946	31.943	0.2397 - 3	25165.	6.0004 +21	1426.2	1.3983 + 7	1.0200 - 4	28.964
140500	141453	31.942	0.2135	25207.	6.0242	1427.4	1.3693	1.0425	28.964
141000	141960	31.940	0.1873	25250.	6.0480	1428.6	1.3409	1.0654	28.964
141500	142467	31.939	0.1611	25293.	6.0717	1429.8	1.3132	1.0887	28.964
142000	142974	31.937	0.1349	25336.	6.0455	1431.0	1.2861	1.1124	28.964
142500	143480	31.936	0.1087	25378.	6.0692	1432.1	1.2597	1.1369	28.964
143000	143987	31.934	0.0825	25421.	6.0430	1433.3	1.2338	1.1617	28.964
143500	144494	31.933	0.0563	25464.	6.0667	1434.5	1.2084	1.1870	28.964
144000	145001	31.931	0.0301	25507.	6.0405	1435.6	1.1837	1.2129	28.964
144500	145508	31.930	0.0039	25550.	6.0642	1436.8	1.1594	1.2392	28.964
145000	146015	31.928	0.0000 - 3	25592.	6.0380 +21	1438.0	1.1350 + 7	1.2661 - 4	28.964
145500	146522	31.927	0.0000	25635.	6.0617	1439.1	1.1114	1.2935	28.964
146000	147029	31.925	0.0000	25678.	6.0854	1440.3	1.0889	1.3214	28.964
146500	147536	31.924	0.0000	25721.	6.0592	1441.5	1.0670	1.3500	28.964
147000	148043	31.922	0.0000	25764.	6.0829	1442.6	1.0461	1.3790	28.964
147500	148550	31.920	0.0000	25807.	6.0567	1443.8	1.0269	1.4087	28.964
148000	149057	31.919	0.0000	25850.	6.0804	1445.0	1.0082	1.4390	28.964
148500	149564	31.917	0.0000	25893.	6.0542	1446.1	0.9900	1.4698	28.964
149000	150072	31.916	0.0000	25936.	6.0779	1447.3	0.9724	1.5013	28.964
149500	150580	31.914	0.0000	25979.	6.0516	1448.5	0.9552	1.5333	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft/sec ²	Specific weight w , lb/ft ³ sec ²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
118000	109423	31.037	2.1162 - 7	22558.	6.2691 +21	1352.3	5.4015 + 7	2.5826 + 5	28.960
119500	109910	31.036	2.0660	22600.	6.1207	1353.6	5.2706	2.5663	28.960
111000	110612	31.036	2.0171	22642.	5.9761	1354.8	5.1506	2.6266	28.960
111500	110707	31.035	1.9679	22684.	5.8351	1356.0	5.0412	2.6899	28.960
112000	111402	31.035	1.9256	22726.	5.6977	1357.2	4.9270	2.7547	28.960
112500	111896	31.030	1.8777	22768.	5.5620	1358.5	4.8155	2.8210	28.960
113000	112391	31.020	1.8355	22810.	5.4335	1359.7	4.7068	2.8868	28.960
113500	112886	31.027	1.7885	22852.	5.3061	1360.9	4.6007	2.9521	28.960
114000	113380	31.025	1.7464	22894.	5.1811	1362.1	4.4972	3.0200	28.960
114500	113875	31.026	1.7077	22936.	5.0612	1363.4	4.3962	3.1012	28.960
115000	114369	31.022	1.6679 - 2	22978.	4.9453 +21	1364.6	4.2977 + 7	3.1751 - 5	28.960
115500	114864	31.021	1.6296	23021.	4.8229	1365.8	4.2015	3.2567	28.960
116000	115358	31.016	1.5911	23063.	4.7115	1367.0	4.1077	3.3279	28.960
116500	115853	31.010	1.5542	23105.	4.6071	1368.2	4.0161	3.4009	28.960
117000	116347	31.010	1.5182	23147.	4.5006	1369.4	3.9267	3.4675	28.960
117500	116842	31.015	1.4831	23189.	4.3967	1370.6	3.8395	3.5499	28.960
118000	117336	31.015	1.4489	23231.	4.2958	1371.9	3.7543	3.6361	28.960
118500	117830	31.011	1.4155	23273.	4.1968	1373.1	3.6712	3.7401	28.960
119000	118325	31.010	1.3829	23315.	4.1005	1374.3	3.5901	3.8277	28.960
119500	118819	31.008	1.3512	23357.	4.0063	1375.5	3.5109	3.9177	28.960
120000	119313	31.007	1.3202 - 2	23399.	3.9147 +21	1376.7	3.4334 + 7	4.0096 - 5	28.960
120500	119808	31.005	1.2900	23442.	3.8253	1377.9	3.3581	4.1031	28.960
121000	120302	31.004	1.2605	23484.	3.7381	1379.1	3.2843	4.1980	28.960
121500	120796	31.002	1.2318	23526.	3.6530	1380.3	3.2125	4.2946	28.960
122000	121290	31.001	1.2037	23568.	3.5701	1381.5	3.1423	4.3965	28.960
122500	121785	31.799	1.1764	23610.	3.4891	1382.7	3.0737	4.4966	28.960
123000	122279	31.798	1.1507	23652.	3.4102	1383.9	3.0068	4.6024	28.960
123500	122773	31.796	1.1257	23694.	3.3331	1385.1	2.9414	4.7058	28.960
124000	123267	31.795	1.0983	23736.	3.2579	1386.3	2.8775	4.8177	28.960
124500	123761	31.793	1.0735	23778.	3.1846	1387.5	2.8152	4.9266	28.960
125000	124255	31.792	1.0495 - 2	23820.	3.1130 +21	1388.7	2.7545 + 7	5.0419 - 5	28.960
125500	124749	31.790	1.0257	23863.	3.0432	1389.9	2.6968	5.1576	28.960
126000	125243	31.789	1.0027	23905.	2.9750	1391.1	2.6437	5.2750	28.960
126500	125737	31.787	0.9804 - 3	23947.	2.9085	1392.3	2.5900	5.3965	28.960
127000	126231	31.786	0.9583	23989.	2.8436	1393.5	2.5395	5.5196	28.960
127500	126725	31.784	0.9369	24031.	2.7802	1394.6	2.4904	5.6454	28.960
128000	127219	31.783	0.9160	24073.	2.7186	1395.8	2.4435	5.7730	28.960
128500	127713	31.781	0.8956	24115.	2.6581	1397.0	2.3980	5.9049	28.960
129000	128207	31.780	0.8757	24157.	2.5991	1398.2	2.3536	6.0380	28.960
129500	128701	31.778	0.8564	24200.	2.5416	1399.4	2.3061	6.1756	28.960
130000	129195	31.777	0.8376 - 3	24242.	2.4855 +21	1400.6	2.2619 + 7	6.3169 - 5	28.960
130500	129689	31.775	0.8190	24284.	2.4307	1401.8	2.2198	6.4573	28.960
131000	130183	31.774	0.8008	24326.	2.3772	1402.9	2.1798	6.6026	28.960
131500	130676	31.772	0.7830	24368.	2.3249	1404.1	2.1399	6.7510	28.960
132000	131170	31.771	0.7659	24410.	2.2739	1405.3	2.0960	6.9024	28.960
132500	131664	31.769	0.7491	24452.	2.2241	1406.5	2.0530	7.0569	28.960
133000	132157	31.768	0.7324	24495.	2.1755	1407.7	2.0111	7.2147	28.960
133500	132651	31.766	0.7164	24537.	2.1280	1408.8	1.9701	7.3756	28.960
134000	133145	31.764	0.7010	24579.	2.0817	1410.0	1.9301	7.5399	28.960
134500	133638	31.763	0.6860	24621.	2.0366	1411.2	1.8909	7.7076	28.960
135000	134132	31.761	0.6708 - 3	24663.	1.9922 +21	1412.4	1.8524 + 7	7.8786 - 5	28.960
135500	134625	31.760	0.65631	24705.	1.9490	1413.5	1.8152	8.0532	28.960
136000	135119	31.758	0.64207	24747.	1.9068	1414.7	1.7787	8.2313	28.960
136500	135612	31.757	0.62817	24790.	1.8656	1415.9	1.7439	8.4121	28.960
137000	136106	31.755	0.61459	24832.	1.8254	1417.0	1.7090	8.5966	28.960
137500	136599	31.754	0.60133	24874.	1.7861	1418.2	1.6750	8.7870	28.960
138000	137093	31.752	0.58828	24916.	1.7477	1419.4	1.6418	8.9808	28.960
138500	137586	31.751	0.57552	24958.	1.7102	1420.5	1.6096	9.1770	28.960
139000	138080	31.749	0.56336	25000.	1.6735	1421.7	1.5789	9.3767	28.960
139500	138573	31.748	0.55129	25043.	1.6377	1422.9	1.5487	9.5807	28.960
140000	139066	31.746	0.53949 - 3	25085.	1.6028 +21	1424.0	1.5192 + 7	9.7928 - 5	28.960
140500	139560	31.745	0.52796	25127.	1.5686	1425.2	1.4903	1.0006 - 4	28.960
141000	140053	31.743	0.51670	25169.	1.5352	1426.4	1.4622	1.0224	28.960
141500	140546	31.742	0.50570	25211.	1.5026	1427.5	1.4366	1.0466	28.960
142000	141040	31.740	0.49493	25254.	1.4707	1428.7	1.4117	1.0722	28.960
142500	141533	31.739	0.48445	25296.	1.4396	1429.8	1.3876	1.0993	28.960
143000	142026	31.737	0.47418	25338.	1.4092	1431.0	1.3647	1.1270	28.960
143500	142519	31.736	0.46415	25380.	1.3796	1432.2	1.3426	1.1559	28.960
144000	143012	31.734	0.45435	25422.	1.3503	1433.3	1.3213	1.1853	28.960
144500	143506	31.733	0.44477	25464.	1.3219	1434.5	1.2992	1.2157	28.960
145000	143999	31.731	0.43541 - 3	25507.	1.2942 +21	1435.6	1.2837 + 7	1.2470 - 4	28.960
145500	144492	31.730	0.42626	25549.	1.2670	1436.8	1.2598	1.2788	28.960
146000	144985	31.728	0.41731	25591.	1.2405	1437.9	1.2365	1.3105	28.960
146500	145478	31.727	0.40857	25633.	1.2146	1439.1	1.2136	1.3422	28.960
147000	145971	31.725	0.40003	25675.	1.1892	1440.2	1.1912	1.3740	28.960
147500	146464	31.724	0.39167	25718.	1.1645	1441.4	1.1694	1.4057	28.960
148000	146957	31.722	0.38351	25760.	1.1402	1442.5	1.1480	1.4375	28.960
148500	147450	31.721	0.37553	25802.	1.1166	1443.7	1.1270	1.4692	28.960
149000	147943	31.719	0.36773	25844.	1.0936	1444.8	1.1065	1.5009	28.960
149500	148436	31.718	0.36010	25887.	1.0708	1446.0	1.0864 + 6	1.5325	28.960

TABLE IX.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
150000	151007	31.715	3.3700 - 3	26020.	1.0021 +21	1669.6	9.2563 + 6	1.5661 - 4	28.964
150500	151594	31.711	3.2995	26043.	9.8150 +20	1650.7	9.0703	1.5996	28.964
151000	152181	31.710	3.2307	26106.	9.6091	1651.9	8.8867	1.6334	28.964
151500	152769	31.708	3.1653	26169.	9.4093	1653.1	8.7109	1.6681	28.964
152000	153356	31.707	3.0975	26192.	9.2160	1654.2	8.5368	1.7035	28.964
152500	153943	31.705	3.0332	26215.	9.0230	1655.4	8.3645	1.7395	28.964
153000	154531	31.704	2.9703	26278.	8.8363	1656.5	8.1999	1.7763	28.964
153500	155118	31.702	2.9080	26320.	8.6550	1657.7	8.0369	1.8137	28.964
154000	155706	31.701	2.8464	26343.	8.4793	1658.8	7.8773	1.8519	28.964
154500	156293	31.699	2.7851	26381.	8.3085	1659.3	7.7248	1.8901	28.964
155000	156881	31.698	2.7291 - 3	26392.	8.1502 +20	1659.3	7.5774 + 6	1.9258 - 4	28.964
155500	157469	31.696	2.6806	26409.	7.9949	1659.3	7.4332	1.9632	28.964
156000	158056	31.694	2.6323	26435.	7.8470	1659.3	7.2916	2.0013	28.964
156500	158643	31.695	2.5851	26466.	7.6932	1659.3	7.1526	2.0402	28.964
157000	159231	31.691	2.5388	26490.	7.5466	1659.3	7.0164	2.0798	28.964
157500	159818	31.690	2.4935	26509.	7.4028	1659.3	6.8827	2.1202	28.964
158000	160406	31.688	2.4498	26530.	7.2618	1659.3	6.7515	2.1614	28.964
158500	160993	31.687	2.4072	26591.	7.1234	1659.3	6.6229	2.2034	28.964
159000	161581	31.685	2.3657	26593.	6.9877	1659.3	6.4967	2.2462	28.964
159500	162169	31.684	2.3252	26594.	6.8546	1659.3	6.3729	2.2898	28.964
160000	162757	31.682	2.2857 - 3	26595.	6.7239 +20	1659.3	6.2515 + 6	2.3343 - 4	28.964
160500	163345	31.681	2.2473	26596.	6.5958	1659.3	6.1324	2.3794	28.964
161000	163933	31.679	2.2102	26598.	6.4702	1659.3	6.0154	2.4258	28.964
161500	164521	31.678	2.1742	26599.	6.3469	1659.3	5.9009	2.4730	28.964
162000	165109	31.676	2.1391	26600.	6.2260	1659.3	5.7885	2.5210	28.964
162500	165697	31.675	2.1041	26602.	6.1073	1659.3	5.6782	2.5700	28.964
163000	166285	31.673	2.0699	26603.	5.9910	1659.3	5.5700	2.6199	28.964
163500	166873	31.671	2.0368	26604.	5.8768	1659.3	5.4639	2.6708	28.964
164000	167461	31.670	2.0046	26605.	5.7649	1659.3	5.3598	2.7224	28.964
164500	168049	31.668	1.9734	26607.	5.6550	1659.3	5.2577	2.7755	28.964
165000	168637	31.667	1.9431 - 3	26608.	5.5473 +20	1659.3	5.1575 + 6	2.8294 - 4	28.964
165500	169225	31.665	1.9138	26609.	5.4416	1659.3	5.0592	2.8844	28.964
166000	169813	31.664	1.8854	26610.	5.3379	1659.3	4.9629	2.9404	28.964
166500	170401	31.662	1.8579	26612.	5.2362	1659.3	4.8683	2.9975	28.964
167000	170989	31.661	1.8313	26613.	5.1364	1659.3	4.7755	3.0557	28.964
167500	171577	31.659	1.8056	26615.	5.0386	1659.3	4.6845	3.1151	28.964
168000	172165	31.658	1.7808	26616.	4.9426	1659.3	4.5953	3.1756	28.964
168500	172753	31.656	1.7569	26617.	4.8484	1659.3	4.5077	3.2373	28.964
169000	173341	31.655	1.7338	26618.	4.7560	1659.3	4.4219	3.3002	28.964
169500	173929	31.653	1.7116	26619.	4.6654	1659.3	4.3376	3.3643	28.964
170000	174517	31.652	1.6902 - 3	26621.	4.5765 +20	1659.3	4.2550 + 6	3.4294 - 4	28.964
170500	175105	31.650	1.6697	26622.	4.4893	1659.3	4.1739	3.4962	28.964
171000	175693	31.649	1.6499	26623.	4.4037	1659.3	4.0942	3.5610	28.964
171500	176281	31.647	1.6308	26624.	4.3205	1659.3	4.0163	3.6262	28.964
172000	176869	31.645	1.6124	26625.	4.2396	1659.3	3.9407	3.6924	28.964
172500	177457	31.644	1.5946	26626.	4.1609	1659.3	3.8674	3.7603	28.964
173000	178045	31.642	1.5773	26627.	4.0843	1659.3	3.7960	3.8294	28.964
173500	178633	31.641	1.5605	26628.	4.0097	1659.3	3.7267	3.8998	28.964
174000	179221	31.639	1.5442	26629.	3.9372	1659.3	3.6602	3.9716	28.964
174500	179809	31.638	1.5284	26630.	3.8665	1659.3	3.5920	4.0448	28.964
175000	180397	31.636	1.5131 - 3	26632.	3.7977 +20	1659.3	3.5249 + 6	4.1194 - 4	28.964
175500	180985	31.635	1.4982	26633.	3.7311	1659.3	3.4590	4.1955	28.964
176000	181573	31.633	1.4838	26634.	3.6665	1659.3	3.3943	4.2731	28.964
176500	182161	31.632	1.4698	26635.	3.6038	1659.3	3.3307	4.3522	28.964
177000	182749	31.630	1.4562	26636.	3.5429	1659.3	3.2682	4.4328	28.964
177500	183337	31.629	1.4430	26637.	3.4837	1659.3	3.2068	4.5151	28.964
178000	183925	31.627	1.4302	26638.	3.4262	1659.3	3.1465	4.5990	28.964
178500	184513	31.626	1.4178	26639.	3.3703	1659.3	3.0873	4.6845	28.964
179000	185101	31.624	1.4058	26640.	3.3159	1659.3	3.0291	4.7717	28.964
179500	185689	31.623	1.3941	26641.	3.2630	1659.3	2.9720	4.8607	28.964
180000	186277	31.621	1.3827 - 3	26642.	3.2116 +20	1659.3	2.9158 + 6	4.9514 - 4	28.964
180500	186865	31.619	1.3716	26643.	3.1616	1659.3	2.8607	5.0439	28.964
181000	187453	31.618	1.3608	26644.	3.1128	1659.3	2.8066	5.1383	28.964
181500	188041	31.616	1.3502	26645.	3.0654	1659.3	2.7534	5.2345	28.964
182000	188629	31.615	1.3400	26646.	3.0196	1659.3	2.7011	5.3327	28.964
182500	189217	31.613	1.3300	26647.	2.9751	1659.3	2.6498	5.4328	28.964
183000	189805	31.612	1.3202	26648.	2.9319	1659.3	2.5994	5.5349	28.964
183500	190393	31.610	1.3106	26649.	2.8898	1659.3	2.5500	5.6391	28.964
184000	190981	31.609	1.3012	26650.	2.8487	1659.3	2.5014	5.7453	28.964
184500	191569	31.607	1.2920	26651.	2.8086	1659.3	2.4536	5.8536	28.964
185000	192157	31.606	1.2830 - 3	26652.	2.7695 +20	1659.3	2.4068 + 6	5.9642 - 4	28.964
185500	192745	31.604	1.2742	26653.	2.7314	1659.3	2.3607	6.0769	28.964
186000	193333	31.603	1.2656	26654.	2.6943	1659.3	2.3155	6.1919	28.964
186500	193921	31.601	1.2572	26655.	2.6582	1659.3	2.2711	6.3095	28.964
187000	194509	31.600	1.2489	26656.	2.6231	1659.3	2.2275	6.4290	28.964
187500	195097	31.598	1.2408	26657.	2.5890	1659.3	2.1847	6.5511	28.964
188000	195685	31.597	1.2328	26658.	2.5559	1659.3	2.1427	6.6757	28.964
188500	196273	31.595	1.2250	26659.	2.5238	1659.3	2.1015	6.8028	28.964
189000	196861	31.593	1.2173	26660.	2.4927	1659.3	2.0609	6.9325	28.964
189500	197449	31.592	1.2100	26661.	2.4626	1659.3	2.0211	7.0648	28.964

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
150000	148929	31.716	3.5244 - 3	25929	1.6087 +21	1447.1	9.4484 + 6	1.4967 - 4	28.964
150300	149422	31.715	3.4535	25971	1.6270	1448.2	9.4704	1.5283	28.964
150600	149916	31.713	3.3822	26013	1.6059	1449.4	9.2885	1.5604	28.964
151000	150407	31.712	3.3123	26055	1.6518 +20	1450.5	9.1047	1.5932	28.964
151500	150900	31.710	3.2443	26097	1.6405	1451.7	8.9247	1.6264	28.964
152000	151393	31.709	3.1776	26140	1.6517	1452.8	8.7487	1.6606	28.964
152500	151886	31.707	3.1125	26181	1.6283	1454.0	8.5763	1.6953	28.964
153000	152378	31.706	3.0487	26222	1.6091	1455.1	8.4074	1.7307	28.964
153500	152871	31.704	2.9864	26263	1.6881	1456.2	8.2425	1.7667	28.964
154000	153364	31.703	2.9254	26304	1.7031	1457.3	8.0810	1.8035	28.964
155000	153856	31.701	2.8658 - 3	26351	1.6261 +20	1458.5	7.9228 + 6	1.8409 - 4	28.964
155500	154349	31.700	2.8080	26391	1.6549	1459.5	7.7689	1.8782	28.964
156000	154842	31.698	2.7559	26432	1.6200	1460.5	7.6239	1.9161	28.964
156500	155334	31.696	2.7060	26473	1.6061	1461.5	7.4808	1.9507	28.964
157000	155827	31.695	2.6532	26514	1.6051	1462.5	7.3403	1.9880	28.964
157500	156319	31.693	2.6032	26555	1.5768	1463.5	7.2025	2.0261	28.964
158000	156812	31.692	2.5542	26596	1.6016	1464.5	7.0673	2.0668	28.964
158500	157304	31.690	2.5062	26637	1.6580	1465.5	6.9347	2.1063	28.964
159000	157797	31.689	2.4590	26678	1.6180	1466.5	6.8045	2.1464	28.964
159500	158289	31.687	2.4128	26719	1.6116	1467.5	6.6768	2.1856	28.964
160000	158782	31.686	2.3674 - 3	26760	1.6066 +20	1468.5	6.5515 + 6	2.2274 - 4	28.964
160500	159274	31.684	2.3228	26801	1.6144	1469.5	6.4284	2.2700	28.964
161000	159766	31.683	2.2791	26842	1.6784	1470.5	6.3079	2.3134	28.964
161500	160259	31.681	2.2363	26883	1.6573	1471.5	6.1894	2.3577	28.964
162000	160751	31.680	2.1942	26924	1.6324	1472.5	6.0734	2.4027	28.964
162500	161243	31.678	2.1529	26965	1.6098	1473.5	5.9595	2.4487	28.964
163000	161736	31.677	2.1124	27006	1.6294	1474.5	5.8477	2.4955	28.964
163500	162228	31.675	2.0727	27047	1.6174	1475.5	5.7380	2.5432	28.964
164000	162720	31.674	2.0337	27088	1.6058	1476.5	5.6303	2.5918	28.964
164500	163212	31.672	1.9955	27129	1.6222	1477.5	5.5247	2.6416	28.964
165000	163705	31.671	1.9579 - 3	27170	1.6307 +20	1478.5	5.4211 + 6	2.6919 - 4	28.964
165500	164197	31.669	1.9211	27211	1.6716	1479.5	5.3194	2.7433	28.964
166000	164689	31.668	1.8850	27252	1.6141	1480.5	5.2194	2.7958	28.964
166500	165181	31.666	1.8494	27293	1.6088	1481.5	5.1217	2.8492	28.964
167000	165673	31.665	1.8148	27334	1.6054	1482.5	5.0254	2.9037	28.964
167500	166165	31.663	1.7807	27375	1.6041	1483.5	4.9314	2.9592	28.964
168000	166657	31.662	1.7472	27416	1.6246	1484.5	4.8389	3.0157	28.964
168500	167149	31.660	1.7143	27457	1.6070	1485.5	4.7482	3.0734	28.964
169000	167641	31.659	1.6821	27498	1.6112	1486.5	4.6591	3.1321	28.964
169500	168133	31.657	1.6505	27539	1.6173	1487.5	4.5718	3.1919	28.964
170000	168625	31.656	1.6193 - 3	27580	1.6251 +20	1488.5	4.4861 + 6	3.2529 - 4	28.964
170500	169117	31.654	1.5880	27621	1.6736	1489.5	4.4020	3.3151	28.964
171000	169609	31.653	1.5592	27662	1.6459	1490.5	4.3194	3.3784	28.964
171500	170101	31.651	1.5299	27703	1.6588	1491.5	4.2385	3.4430	28.964
172000	170593	31.650	1.5011	27744	1.6733	1492.5	4.1590	3.5087	28.964
172500	171085	31.648	1.4745	27785	1.6942	1493.5	4.0832	3.5719	28.964
173000	171577	31.647	1.4483	27826	1.6165	1494.5	4.0088	3.6362	28.964
173500	172068	31.645	1.4226	27867	1.6200	1495.5	3.9356	3.7018	28.964
174000	172560	31.644	1.3974	27908	1.6149	1496.5	3.8637	3.7686	28.964
174500	173052	31.642	1.3725	27949	1.60910	1497.5	3.7931	3.8364	28.964
175000	173544	31.641	1.3481 - 3	27990	1.6183 +20	1498.5	3.7236 + 6	3.9060 - 4	28.964
175500	174035	31.639	1.3240	28031	1.6469	1499.5	3.6554	3.9767	28.964
176000	174527	31.638	1.3004	28072	1.6767	1500.5	3.5883	4.0488	28.964
176500	175019	31.636	1.2772	28113	1.6074	1501.5	3.5224	4.1222	28.964
177000	175510	31.635	1.2543	28154	1.6737	1502.5	3.4577	4.1971	28.964
177500	176002	31.633	1.2319	28195	1.6729	1503.5	3.3940	4.2734	28.964
178000	176493	31.632	1.2098	28236	1.6073	1504.5	3.3315	4.3511	28.964
178500	176985	31.630	1.1881	28277	1.6527	1505.5	3.2700	4.4304	28.964
179000	177477	31.629	1.1668	28318	1.6793	1506.5	3.2097	4.5112	28.964
179500	177968	31.627	1.1458	28359	1.6169	1507.5	3.1503	4.5936	28.964
180000	178460	31.626	1.1252 - 3	28400	1.6355 +20	1508.5	3.0920 + 6	4.6775 - 4	28.964
180500	178951	31.624	1.1049	28441	1.6952	1509.5	3.0348	4.7631	28.964
181000	179442	31.623	1.0850	28482	1.6260	1510.5	2.9785	4.8504	28.964
181500	179934	31.621	1.0654	28523	1.6777	1511.5	2.9232	4.9393	28.964
182000	180425	31.620	1.0461	28564	1.6042	1512.5	2.8689	5.0308	28.964
182500	180917	31.618	1.0272	28605	1.6041	1513.5	2.8155	5.1224	28.964
183000	181408	31.617	1.0084	28646	1.6087	1514.5	2.7631	5.2167	28.964
183500	181899	31.615	0.9903 - 4	28687	1.6543	1515.5	2.7114	5.3128	28.964
184000	182391	31.614	0.9724	28728	1.6008	1516.5	2.6610	5.4107	28.964
184500	182882	31.612	0.9547	28769	1.6483	1517.5	2.6113	5.5104	28.964
185000	183373	31.611	0.9370 - 4	28810	1.6766 +20	1518.5	2.5624 + 6	5.6124 - 4	28.964
185500	183864	31.609	0.9203	28851	1.6758	1519.5	2.5145	5.7163	28.964
186000	184356	31.608	0.9034	28892	1.6959	1520.5	2.4673	5.8221	28.964
186500	184847	31.606	0.8867	28933	1.6468	1521.5	2.4210	5.9301	28.964
187000	185338	31.605	0.8704	28974	1.6582	1522.5	2.3754	6.0401	28.964
187500	185829	31.603	0.8540	29015	1.6512	1523.5	2.3307	6.1524	28.964
188000	186320	31.602	0.8379	29056	1.6504	1524.5	2.2870	6.2668	28.964
188500	186811	31.600	0.8231	29097	1.6588	1525.5	2.2439	6.3835	28.964
189000	187302	31.599	0.8086	29138	1.6138	1526.5	2.2014	6.5025	28.964
189500	187793	31.597	0.7938	29179	1.6395	1527.5	2.1600	6.6239	28.964

TABLE V.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
190000	19757	31.508	7.3619 - 6	25315.	2.1800 +20	1827.1	7.9821 + 6	7.1097 - 6	28.966
190500	192254	31.509	7.1665	25287.	2.1391	1826.2	7.9637	7.3513	28.966
191000	192766	31.507	7.0298	25258.	2.0989	1825.4	7.9461	7.4780	28.966
191500	193275	31.506	6.8969	25230.	2.0596	1824.5	7.9291	7.6216	28.966
192000	193784	31.504	6.7666	25201.	2.0206	1823.7	7.9120	7.7677	28.966
192500	194294	31.503	6.6387	25172.	1.9825	1822.8	7.8952	7.9170	28.966
193000	194803	31.501	6.5131	25144.	1.9451	1822.0	7.8782	8.0694	28.966
193500	195312	31.500	6.3896	25115.	1.9083	1821.2	7.8617	8.2249	28.966
194000	195822	31.498	6.2684	25087.	1.8722	1820.3	7.8452	8.3833	28.966
194500	196331	31.497	6.1493	25058.	1.8367	1819.5	7.8281	8.5434	28.966
195000	196841	31.495	6.0324 - 6	25029.	1.8019 +20	1818.6	7.8116 + 6	8.7107 - 6	28.966
195500	197350	31.496	5.9173	25001.	1.7677	1817.8	7.7957	8.8793	28.966
196000	197859	31.492	5.8042	24972.	1.7338	1816.9	7.7804	9.0514	28.966
196500	198369	31.491	5.6939	24944.	1.7010	1816.1	7.7654	9.2271	28.966
197000	198879	31.489	5.5861	24915.	1.6686	1815.2	7.7506	9.4064	28.966
197500	199388	31.487	5.4803	24886.	1.6368	1814.4	7.7360	9.5894	28.966
198000	199898	31.486	5.3764	24858.	1.6055	1813.5	7.7217	9.7762	28.966
198500	200408	31.484	5.2743	24829.	1.5748	1812.7	7.7074	9.9668	28.966
199000	200917	31.483	5.1641	24800.	1.5446	1811.8	7.6934	1.0161 - 3	28.966
199500	201427	31.481	5.0498	24772.	1.5150	1811.0	7.6790	1.0360	28.966
200000	201937	31.479	4.9722 - 6	24743.	1.4859 +20	1810.1	7.6650 + 6	1.0563 - 3	28.966
200500	202447	31.478	4.8987	24714.	1.4587	1809.2	7.6511	1.0760	28.966
201000	202956	31.477	4.7922	24685.	1.4323	1808.4	7.6373	1.0958	28.966
201500	203466	31.475	4.7032	24656.	1.4063	1807.5	7.6237	1.1161	28.966
202000	203976	31.474	4.6194	24627.	1.3808	1806.6	7.6102	1.1367	28.966
202500	204486	31.472	4.5351	24598.	1.3554	1805.8	7.5968	1.1578	28.966
203000	204996	31.471	4.4520	24569.	1.3309	1804.9	7.5836	1.1794	28.966
203500	205506	31.469	4.3704	24540.	1.3065	1804.1	7.5704	1.2013	28.966
204000	206015	31.468	4.2909	24511.	1.2825	1803.2	7.5574	1.2230	28.966
204500	206525	31.466	4.2109	24482.	1.2589	1802.4	7.5444	1.2467	28.966
205000	207035	31.465	4.1330 - 6	24453.	1.2357 +20	1801.5	7.5314 + 6	1.2701 - 3	28.966
205500	207545	31.464	4.0564	24424.	1.2129	1800.7	7.5184	1.2941	28.966
206000	208055	31.462	3.9811	24395.	1.1906	1800.0	7.5054	1.3185	28.966
206500	208565	31.461	3.9069	24366.	1.1683	1799.1	7.4924	1.3434	28.966
207000	209075	31.459	3.8340	24337.	1.1464	1798.4	7.4794	1.3689	28.966
207500	209585	31.458	3.7623	24308.	1.1252	1797.5	7.4664	1.3950	28.966
208000	210095	31.456	3.6917	24279.	1.1041	1796.8	7.4534	1.4216	28.966
208500	210605	31.455	3.6223	24250.	1.0836	1796.0	7.4404	1.4487	28.966
209000	211115	31.453	3.5540	24221.	1.0634	1795.2	7.4274	1.4765	28.966
209500	211625	31.451	3.4868	24192.	1.0430	1794.4	7.4144	1.5049	28.966
210000	212135	31.450	3.4207 - 6	24163.	1.0233 +20	1793.5	7.4014 + 6	1.5337 - 3	28.966
210500	212645	31.448	3.3558	24134.	1.0039	1792.7	7.3884	1.5635	28.966
211000	213155	31.447	3.2919	24105.	9.8481 +19	1791.8	7.3754	1.5938	28.966
211500	213665	31.445	3.2299	24076.	9.6866	1791.0	7.3624	1.6247	28.966
212000	214175	31.444	3.1672	24047.	9.5242	1790.1	7.3494	1.6563	28.966
212500	214685	31.442	3.1045	24018.	9.3617	1789.3	7.3364	1.6886	28.966
213000	215195	31.441	3.0427	23989.	9.1993	1788.4	7.3234	1.7217	28.966
213500	215705	31.439	2.9808	23960.	9.0368	1787.6	7.3104	1.7555	28.966
214000	216215	31.438	2.9302	23931.	8.8744	1786.7	7.2974	1.7900	28.966
214500	216725	31.436	2.8734	23902.	8.7119	1785.9	7.2844	1.8253	28.966
215000	217235	31.435	2.8175 - 6	23873.	8.5494 +19	1785.0	7.2714 + 6	1.8614 - 3	28.966
215500	217745	31.433	2.7627	23844.	8.3869	1784.2	7.2584	1.8982	28.966
216000	218255	31.432	2.7087	23815.	8.2244	1783.3	7.2454	1.9360	28.966
216500	218765	31.430	2.6554	23786.	8.0619	1782.5	7.2324	1.9745	28.966
217000	219275	31.429	2.6035	23757.	7.8994	1781.6	7.2194	2.0140	28.966
217500	219785	31.427	2.5523	23728.	7.7369	1780.8	7.2064	2.0543	28.966
218000	220295	31.426	2.5019	23699.	7.5744	1779.9	7.1934	2.0956	28.966
218500	220805	31.424	2.4524	23670.	7.4119	1779.1	7.1804	2.1378	28.966
219000	221315	31.423	2.4037	23641.	7.2494	1778.2	7.1674	2.1810	28.966
219500	221825	31.421	2.3559	23612.	7.0869	1777.4	7.1544	2.2251	28.966
220000	222335	31.420	2.3089 - 6	23583.	6.9244 +19	1776.5	7.1414 + 6	2.2703 - 3	28.966
220500	222845	31.418	2.2627	23554.	6.7619	1775.7	7.1284	2.3165	28.966
221000	223355	31.417	2.2174	23525.	6.6000	1774.8	7.1154	2.3638	28.966
221500	223865	31.415	2.1720	23496.	6.4375	1774.0	7.1024	2.4122	28.966
222000	224375	31.414	2.1290	23467.	6.2750	1773.1	7.0894	2.4617	28.966
222500	224885	31.412	2.0860	23438.	6.1125	1772.3	7.0764	2.5123	28.966
223000	225395	31.411	2.0437	23409.	5.9500	1771.4	7.0634	2.5642	28.966
223500	225905	31.409	2.0022	23380.	5.7875	1770.6	7.0504	2.6172	28.966
224000	226415	31.408	1.9614	23351.	5.6250	1769.7	7.0374	2.6715	28.966
224500	226925	31.406	1.9213	23322.	5.4625	1768.9	7.0244	2.7271	28.966
225000	227435	31.405	1.8820 - 6	23293.	5.3000 +19	1768.0	7.0114 + 6	2.7840 - 3	28.966
225500	227945	31.403	1.8433	23264.	5.1375	1767.2	7.0000	2.8422	28.966
226000	228455	31.402	1.8054	23235.	4.9750	1766.3	6.9886	2.9018	28.966
226500	228965	31.400	1.7681	23206.	4.8125	1765.5	6.9772	2.9629	28.966
227000	229475	31.399	1.7315	23177.	4.6500	1764.6	6.9658	3.0254	28.966
227500	229985	31.397	1.6955	23148.	4.4875	1763.8	6.9544	3.0894	28.966
228000	230495	31.396	1.6602	23119.	4.3250	1762.9	6.9430	3.1549	28.966
228500	231005	31.394	1.6255	23090.	4.1625	1762.1	6.9316	3.2221	28.966
229000	231515	31.393	1.5915	23061.	4.0000	1761.2	6.9202	3.2908	28.966
229500	232025	31.391	1.5581	23032.	3.8375	1760.4	6.9088	3.3612	28.966

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
190000	188284	31.596	7.7924 - 4	25613.	2.3241 +20	1429.9	2.1192 + 6	6.7477 - 6	28.964
190500	188775	31.596	7.7924 - 4	25613.	2.3241 +20	1429.9	2.1192 + 6	6.7477 - 6	28.964
191000	189266	31.593	7.7900	25557.	2.2614	1426.3	2.0396	7.0024	28.964
191500	189757	31.591	7.7894	25529.	2.2002	1427.5	2.0010	7.1339	28.964
192000	190248	31.590	7.7883	25501.	2.1594	1426.4	1.9630	7.2678	28.964
192500	190739	31.588	7.7894	25273.	2.1198	1425.6	1.9256	7.4043	28.964
193000	191230	31.587	6.9822	25245.	2.0806	1425.6	1.8890	7.5434	28.964
193500	191721	31.585	6.9891	25217.	2.0422	1425.2	1.8530	7.6857	28.964
194000	192212	31.584	6.7122	25189.	2.0044	1425.3	1.8177	7.8304	28.964
194500	192703	31.582	6.5875	25161.	1.9673	1422.5	1.7829	7.9784	28.964
195000	193193	31.581	6.4651 - 4	25133.	1.9308 +20	1421.7	1.7489 + 6	8.1291 - 4	28.964
195500	193684	31.579	6.3447	25105.	1.8949	1420.8	1.7154	8.2829	28.964
196000	194175	31.578	6.2245	25077.	1.8597	1420.0	1.6825	8.4398	28.964
196500	194666	31.576	6.1044	25049.	1.8251	1419.2	1.6503	8.5998	28.964
197000	195156	31.575	5.9843	25020.	1.7911	1418.4	1.6184	8.7630	28.964
197500	195647	31.573	5.8642	24992.	1.7577	1417.5	1.5875	8.9294	28.964
198000	196138	31.572	5.7440	24964.	1.7246	1416.7	1.5569	9.0994	28.964
198500	196628	31.570	5.6238	24936.	1.6927	1415.9	1.5269	9.2727	28.964
199000	197119	31.569	5.5036	24908.	1.6610	1415.0	1.4975	9.4495	28.964
199500	197609	31.567	5.3832	24880.	1.6299	1414.2	1.4686	9.6299	28.964
200000	198100	31.566	5.2624 - 4	24852.	1.5993 +20	1413.4	1.4402 + 6	9.8140 - 4	28.964
200500	198591	31.564	5.1419	24824.	1.5693	1412.5	1.4123	1.0002 - 3	28.964
201000	199081	31.563	5.0219	24796.	1.5398	1411.7	1.3849	1.0193	28.964
201500	199572	31.561	4.9017	24768.	1.5108	1410.9	1.3581	1.0389	28.964
202000	200062	31.560	4.7815	24740.	1.4824	1410.0	1.3317	1.0588	28.964
202500	200553	31.558	4.6613	24712.	1.4539	1409.2	1.3065	1.0781	28.964
203000	201043	31.557	4.5411	24684.	1.4259	1408.4	1.2818	1.0976	28.964
203500	201534	31.555	4.4209	24656.	1.4004	1407.5	1.2575	1.1174	28.964
204000	202024	31.554	4.3007	24628.	1.3744	1406.7	1.2334	1.1377	28.964
204500	202514	31.552	4.1805	24600.	1.3489	1405.8	1.2101	1.1584	28.964
205000	203004	31.551	4.0603	24572.	1.3239	1405.0	1.1870 + 6	1.1795 - 3	28.964
205500	203495	31.549	3.9401	24544.	1.3008	1398.4	1.1643	1.2011	28.964
206000	203985	31.548	3.8199	24516.	1.2783	1396.8	1.1420	1.2231	28.964
206500	204475	31.546	3.6997	24488.	1.2561	1395.1	1.1200	1.2454	28.964
207000	204965	31.545	3.5795	24460.	1.2337	1393.4	1.0986	1.2685	28.964
207500	205455	31.543	3.4593	24432.	1.2119	1391.7	1.0772	1.2919	28.964
208000	205945	31.542	3.3391	24404.	1.1902	1390.0	1.0564	1.3158	28.964
208500	206435	31.540	3.2189	24376.	1.1711	1388.3	1.0359	1.3402	28.964
209000	206925	31.539	3.0987	24348.	1.1520	1386.6	1.0157	1.3651	28.964
209500	207415	31.537	2.9785	24320.	1.1287	1384.9	9.9594 + 5	1.3904	28.964
210000	207906	31.536	2.8583	24292.	1.1080 +20	1383.2	9.7648 + 5	1.4165 - 3	28.964
210500	208396	31.534	2.7381	24264.	1.0877	1381.5	9.5735	1.4431	28.964
211000	208886	31.533	2.6179	24236.	1.0674	1379.8	9.3856	1.4701	28.964
211500	209376	31.531	2.4977	24208.	1.0479	1378.1	9.2009	1.4978	28.964
212000	209866	31.530	2.3775	24180.	1.0285	1376.4	9.0193	1.5261	28.964
212500	210356	31.528	2.2573	24152.	1.0094	1374.7	8.8410	1.5549	28.964
213000	210846	31.527	2.1371	24124.	9.9044 +19	1373.0	8.6657	1.5844	28.964
213500	211336	31.525	2.0169	24096.	9.7217	1371.3	8.4935	1.6145	28.964
214000	211826	31.524	1.8967	24068.	9.5400	1369.6	8.3243	1.6453	28.964
214500	212316	31.522	1.7765	24040.	9.3612	1367.8	8.1581	1.6767	28.964
215000	212806	31.521	1.6563	24012.	9.1853 +19	1366.1	7.9948 + 5	1.7088 - 3	28.964
215500	213296	31.519	1.5361	23984.	9.0124	1364.4	7.8344	1.7414	28.964
216000	213785	31.518	1.4159	23956.	8.8423	1362.7	7.6768	1.7751	28.964
216500	214275	31.516	1.2957	23928.	8.6749	1361.0	7.5220	1.8093	28.964
217000	214765	31.515	1.1755	23900.	8.5104	1359.2	7.3699	1.8443	28.964
217500	215255	31.513	1.0553	23872.	8.3485	1357.5	7.2204	1.8800	28.964
218000	215745	31.512	0.9351	23844.	8.1894	1355.8	7.0739	1.9164	28.964
218500	216234	31.510	0.8149	23816.	8.0329	1354.0	6.9298	1.9539	28.964
219000	216724	31.509	0.6947	23788.	7.8790	1352.3	6.7883	1.9921	28.964
219500	217214	31.507	0.5745	23760.	7.7274	1350.6	6.6494	2.0311	28.964
220000	217703	31.506	0.4543	23732.	7.5788 +19	1348.8	6.5130 + 5	2.0710 - 3	28.964
220500	218193	31.504	0.3341	23704.	7.4325	1347.1	6.3790	2.1117	28.964
221000	218682	31.503	0.2139	23676.	7.2887	1345.3	6.2474	2.1534	28.964
221500	219172	31.501	0.0937	23648.	7.1473	1343.6	6.1183	2.1960	28.964
222000	219661	31.500	0.0735	23620.	7.0083	1341.8	5.9915	2.2396	28.964
222500	220151	31.498	0.0533	23592.	6.8716	1340.1	5.8670	2.2841	28.964
223000	220640	31.497	0.0331	23564.	6.7373	1338.3	5.7448	2.3297	28.964
223500	221130	31.495	0.0129	23536.	6.6053	1336.6	5.6248	2.3762	28.964
224000	221619	31.494	0.0027	23508.	6.4755	1334.8	5.5070	2.4239	28.964
224500	222109	31.492	0.0025	23480.	6.3479	1333.1	5.3914	2.4724	28.964
225000	222598	31.491	0.0023	23452.	6.2225 +19	1331.3	5.2779 + 5	2.5224 - 3	28.964
225500	223087	31.489	0.0021	23424.	6.0993	1329.5	5.1664	2.5733	28.964
226000	223577	31.488	0.0019	23396.	5.9782	1327.8	5.0573	2.6255	28.964
226500	224066	31.486	0.0017	23368.	5.8592	1326.0	4.9500	2.6788	28.964
227000	224555	31.485	0.0015	23340.	5.7423	1324.2	4.8448	2.7333	28.964
227500	225045	31.483	0.0013	23312.	5.6274	1322.5	4.7415	2.7891	28.964
228000	225534	31.482	0.0011	23284.	5.5145	1320.7	4.6401	2.8462	28.964
228500	226023	31.480	0.0009	23256.	5.4036	1318.9	4.5407	2.9044	28.964
229000	226512	31.479	0.0007	23228.	5.2947	1317.1	4.4431	2.9644	28.964
229500	227002	31.477	0.0005	23200.	5.1874	1315.3	4.3474	3.0254	28.964

TABLE II.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
230000	232541	31.448	1.5251 - 4	21232.	4.5716 +19	1364.4	3.7991 + 3	3.4333 - 3	28.964
230500	233074	31.447	1.4931	21173.	4.4753	1362.5	3.7139	3.5072	28.964
231000	233506	31.445	1.4612	21114.	4.3807	1360.7	3.6303	3.5829	28.964
231500	234099	31.444	1.4305	21055.	4.2880	1359.0	3.5483	3.6604	28.964
232000	234610	31.442	1.4000	20996.	4.1969	1357.0	3.4680	3.7399	28.964
232500	235122	31.441	1.3701	20937.	4.1075	1355.1	3.3893	3.8213	28.964
233000	235633	31.439	1.3400	20879.	4.0197	1353.3	3.3122	3.9047	28.964
233500	236144	31.438	1.3120	20820.	3.9336	1351.4	3.2365	3.9901	28.964
234000	236656	31.436	1.2837	20761.	3.8491	1349.6	3.1625	4.0777	28.964
234500	237167	31.434	1.2560	20702.	3.7662	1347.7	3.0909	4.1675	28.964
235000	237670	31.433	1.2280 - 4	20643.	3.6840 +19	1345.6	3.0187 + 3	4.2596 - 3	28.964
235500	238190	31.431	1.2021	20584.	3.6029	1343.6	2.9490	4.3539	28.964
236000	238702	31.430	1.1760	20525.	3.5224	1341.6	2.8807	4.4506	28.964
236500	239213	31.428	1.1503	20466.	3.4427	1339.6	2.8130	4.5498	28.964
237000	239725	31.427	1.1251	20408.	3.3705	1337.6	2.7483	4.6515	28.964
237500	240234	31.425	1.1000	20349.	3.3004	1335.5	2.6841	4.7557	28.964
238000	240748	31.424	1.0761	20290.	3.2278	1333.4	2.6212	4.8626	28.964
238500	241259	31.422	1.0523	20231.	3.1564	1331.3	2.5596	4.9723	28.964
239000	241771	31.421	1.0290	20172.	3.0860	1329.2	2.4993	5.0847	28.964
239500	242283	31.420	1.0061	20113.	3.0164	1327.0	2.4403	5.2000	28.964
240000	242794	31.418	9.8372 - 5	20054.	2.9512 +19	1324.9	2.3824 + 3	5.3183 - 3	28.964
240500	243306	31.417	9.6173	19995.	2.8854	1322.7	2.3250	5.4397	28.964
241000	243818	31.415	9.4016	19936.	2.8200	1320.5	2.2703	5.5642	28.964
241500	244330	31.414	9.1902	19877.	2.7555	1318.3	2.2161	5.6919	28.964
242000	244842	31.412	8.9820	19818.	2.6924	1316.1	2.1629	5.8230	28.964
242500	245353	31.411	8.7796	19759.	2.6304	1313.9	2.1109	5.9575	28.964
243000	245865	31.409	8.5804	19700.	2.5749	1311.7	2.0599	6.0954	28.964
243500	246377	31.408	8.3851	19641.	2.5164	1309.5	2.0101	6.2372	28.964
244000	246889	31.406	8.1937	19582.	2.4591	1307.3	1.9613	6.3826	28.964
244500	247401	31.405	8.0060	19523.	2.4029	1305.1	1.9135	6.5319	28.964
245000	247913	31.403	7.8222 - 5	19464.	2.3478 +19	1302.9	1.8668 + 3	6.6851 - 3	28.964
245500	248425	31.402	7.6420	19405.	2.2939	1300.7	1.8211	6.8424	28.964
246000	248937	31.401	7.465	19346.	2.241	1298.5	1.776	7.004	28.964
246500	249449	31.400	7.292	19287.	2.189	1296.3	1.733	7.170	28.964
247000	249961	31.399	7.123	19228.	2.138	1294.1	1.690	7.340	28.964
247500	250473	31.398	6.957	19169.	2.089	1291.9	1.648	7.515	28.964
248000	250985	31.397	6.794	19110.	2.040	1289.7	1.607	7.695	28.964
248500	251497	31.396	6.634	19051.	1.992	1287.5	1.567	7.879	28.964
249000	252009	31.395	6.478	18992.	1.945	1285.3	1.528	8.069	28.964
249500	252521	31.394	6.325	18933.	1.899	1283.1	1.489	8.263	28.964
250000	253034	31.393	6.176 - 5	18874.	1.855 +19	1280.9	1.452 + 3	8.464 - 3	28.964
250500	253546	31.392	6.029	18815.	1.811	1278.7	1.415	8.669	28.964
251000	254058	31.391	5.885	18756.	1.767	1276.5	1.379	8.880	28.964
251500	254570	31.390	5.744	18697.	1.725	1274.3	1.344	9.097	28.964
252000	255083	31.389	5.607	18638.	1.684	1272.1	1.310	9.321	28.964
252500	255595	31.388	5.472	18579.	1.644	1269.9	1.276	9.550	28.964
253000	256107	31.387	5.340	18520.	1.604	1267.7	1.244	9.784	28.964
253500	256620	31.386	5.210	18461.	1.565	1265.5	1.211	1.003 - 2	28.964
254000	257132	31.385	5.084	18402.	1.527	1263.3	1.180	1.028	28.964
254500	257645	31.384	4.960	18343.	1.490	1261.1	1.150	1.053	28.964
255000	258157	31.383	4.839 - 5	18284.	1.454 +19	1258.9	1.120 + 3	1.080 - 2	28.964
255500	258669	31.382	4.720	18225.	1.418	1256.7	1.091	1.107	28.964
256000	259182	31.381	4.604	18166.	1.383	1254.5	1.062	1.135	28.964
256500	259694	31.380	4.490	18107.	1.349	1252.3	1.034	1.163	28.964
257000	260207	31.379	4.379	18048.	1.316	1250.1	1.007	1.193	28.964
257500	260720	31.378	4.270	17989.	1.283	1247.9	9.802 + 4	1.223	28.964
258000	261232	31.377	4.164	17930.	1.251	1245.7	9.582	1.254	28.964
258500	261745	31.376	4.059	17871.	1.220	1243.5	9.369	1.287	28.964
259000	262257	31.375	3.957	17812.	1.189	1241.3	9.161	1.320	28.964
259500	262770	31.374	3.850	17753.	1.157	1239.1	8.959	1.356	28.964
260000	263283	31.373	3.740 - 5	17694.	1.126 +19	1236.9	8.760 + 3	1.396 - 2	28.964
260500	263796	31.372	3.634	17635.	1.092	1234.7	8.567	1.437	28.964
261000	264308	31.371	3.530	17576.	1.061	1232.5	8.379	1.479	28.964
261500	264821	31.370	3.430	17517.	1.031	1230.3	8.192	1.522	28.964
262000	265334	31.369	3.332	17458.	1.002	1228.1	8.010	1.567	28.964
262500	265847	31.368	3.237	17399.	9.734 +18	1225.9	7.834	1.612	28.964
263000	266359	31.367	3.145	17340.	9.457	1223.7	7.661	1.660	28.964
263500	266872	31.366	3.054	17281.	9.189	1221.5	7.494	1.708	28.964
264000	267385	31.365	2.969	17222.	8.928	1219.3	7.331	1.758	28.964
264500	267898	31.364	2.884	17163.	8.674	1217.1	7.173	1.810	28.964
265000	268411	31.363	2.802 - 5	17104.	8.427 +18	1214.9	7.019 + 3	1.862 - 2	28.964
265500	268924	31.362	2.723	17045.	8.188	1212.7	6.870	1.917	28.964
266000	269437	31.361	2.645	16986.	7.955	1210.5	6.726	1.973	28.964
266500	269950	31.360	2.570	16927.	7.729	1208.3	6.587	2.031	28.964
267000	270463	31.359	2.497	16868.	7.510	1206.1	6.453	2.090	28.964
267500	270976	31.358	2.426	16809.	7.297	1203.9	6.324	2.151	28.964
268000	271489	31.357	2.357	16750.	7.089	1201.7	6.200	2.214	28.964
268500	272002	31.356	2.290	16691.	6.888	1199.5	6.081	2.279	28.964
269000	272516	31.355	2.224	16632.	6.692	1197.3	5.966	2.345	28.964
269500	273029	31.354	2.161	16573.	6.502	1195.1	5.855	2.414	28.964

TABLE X.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
230000	227691	31.476	1.6962 - 4	21527.	5.0025 +19	1313.6	4.2535 + 5	3.0042 - 3	28.964
230500	227980	31.476	1.6962	21469.	4.9792	1311.0	4.1618	3.1325	28.964
231000	228269	31.475	1.6277	21412.	4.9777	1310.0	4.0710	3.2179	28.964
231500	228558	31.471	1.5961	21354.	4.7780	1298.2	3.9823	3.2850	28.964
232000	228847	31.470	1.5616	21297.	4.6401	1304.4	3.8950	3.3537	28.964
232500	229136	31.468	1.5294	21239.	4.5040	1304.6	3.8101	3.4240	28.964
233000	229425	31.467	1.5079	21182.	4.3896	1302.0	3.7265	3.4960	28.964
233500	229714	31.465	1.4869	21124.	4.3960	1301.0	3.6445	3.5698	28.964
234000	230003	31.464	1.4684	21067.	4.3650	1299.2	3.5641	3.6453	28.964
234500	230292	31.462	1.4505	21009.	4.3166	1297.4	3.4852	3.7226	28.964
235000	230581	31.461	1.3772 - 4	20951.	4.1266 +19	1295.6	3.4079 + 5	3.8017 - 3	28.964
235500	230870	31.459	1.3484	20894.	4.0426	1293.8	3.3321	3.8820	28.964
236000	231159	31.458	1.3281	20836.	3.9577	1292.0	3.2577	3.9634	28.964
236500	231448	31.456	1.2923	20779.	3.8741	1290.1	3.1849	4.0508	28.964
237000	231737	31.455	1.2650	20721.	3.7931	1288.3	3.1154	4.1380	28.964
237500	232025	31.453	1.2383	20664.	3.7130	1286.5	3.0486	4.2272	28.964
238000	232314	31.452	1.2120	20606.	3.6346	1284.7	2.9797	4.3166	28.964
238500	232603	31.450	1.1862	20549.	3.5573	1282.8	2.9075	4.4122	28.964
239000	232892	31.449	1.1609	20491.	3.4816	1281.0	2.8415	4.5082	28.964
239500	233180	31.447	1.1361	20433.	3.4073	1279.2	2.7769	4.6065	28.964
240000	233469	31.446	1.1117 - 4	20376.	3.3346 +19	1277.4	2.7134 + 5	4.7073 - 3	28.964
240500	233758	31.445	1.0878	20318.	3.2620	1275.5	2.6515	4.8105	28.964
241000	234046	31.443	1.0645	20261.	3.1926	1273.7	2.5907	4.9163	28.964
241500	234335	31.442	1.0413	20203.	3.1237	1271.8	2.5311	5.0244	28.964
242000	234624	31.440	1.0187	20146.	3.0560	1270.0	2.4728	5.1359	28.964
242500	234912	31.439	9.9457 - 5	20088.	2.9897	1268.1	2.4156	5.2499	28.964
243000	235201	31.437	9.7403	20030.	2.9248	1266.3	2.3595	5.3667	28.964
243500	235489	31.436	9.5351	19973.	2.8608	1264.4	2.3047	5.4865	28.964
244000	235778	31.434	9.3259	19915.	2.7982	1262.6	2.2509	5.6093	28.964
244500	236066	31.433	9.1207	19858.	2.7367	1260.7	2.1982	5.7352	28.964
245000	236355	31.431	8.9195 - 5	19800.	2.6765 +19	1258.9	2.1467 + 5	5.8643 - 3	28.964
245500	236643	31.430	8.7221	19742.	2.6176	1257.0	2.0962	5.9967	28.964
246000	236932	31.428	8.5290	19685.	2.5599	1255.1	2.047	6.133	28.964
246500	237220	31.426	8.3399	19627.	2.503	1253.2	1.998	6.272	28.964
247000	237509	31.424	8.1533	19569.	2.447	1251.3	1.951	6.415	28.964
247500	237797	31.422	7.9700	19512.	2.392	1249.4	1.906	6.561	28.964
248000	238086	31.420	7.7891	19454.	2.339	1247.5	1.862	6.712	28.964
248500	238374	31.418	7.6116	19397.	2.286	1245.6	1.818	6.866	28.964
249000	238663	31.416	7.4366	19339.	2.235	1243.7	1.771	7.024	28.964
249500	238951	31.414	7.265	19281.	2.184	1241.8	1.726	7.187	28.964
250000	239240	31.412	7.097 - 5	19224.	2.135 +19	1240.	1.684 + 5	7.355 - 3	28.964
250500	239528	31.410	6.9308	19166.	2.086	1238.1	1.644	7.524	28.964
251000	239817	31.408	6.7689	19108.	2.038	1236.2	1.604	7.696	28.964
251500	240105	31.406	6.6114	19051.	1.992	1234.3	1.567	7.870	28.964
252000	240394	31.404	6.4581	18993.	1.946	1232.4	1.528	8.045	28.964
252500	240682	31.402	6.3088	18936.	1.901	1230.5	1.491	8.225	28.964
253000	240971	31.400	6.1635	18878.	1.857	1228.6	1.454	8.405	28.964
253500	241259	31.398	6.0221	18820.	1.814	1226.7	1.418	8.585	28.964
254000	241548	31.396	5.8846	18763.	1.772	1224.8	1.383	8.765	28.964
254500	241836	31.394	5.7511	18705.	1.731	1222.9	1.349	8.947	28.964
255000	242125	31.392	5.6219 - 5	18647.	1.691 +19	1221.	1.315 + 5	9.128 - 3	28.964
255500	242413	31.390	5.4966	18590.	1.651	1219.	1.282	9.307	28.964
256000	242702	31.388	5.3747	18532.	1.612	1217.	1.250	9.486	28.964
256500	242990	31.386	5.2560	18474.	1.574	1215.	1.219	9.671	28.964
257000	243279	31.384	5.1404	18417.	1.537	1213.	1.188	9.857	28.964
257500	243567	31.382	5.0279	18359.	1.500	1211.	1.158	1.021 - 2	28.964
258000	243856	31.380	4.9184	18301.	1.465	1209.	1.129	1.046	28.964
258500	244144	31.378	4.8119	18244.	1.430	1207.	1.100	1.072	28.964
259000	244433	31.376	4.7084	18186.	1.396	1205.	1.072	1.098	28.964
259500	244721	31.374	4.6079	18128.	1.362	1203.	1.045	1.125	28.964
260000	245010	31.372	4.5104	18071.	1.329 +19	1201.	1.018 + 5	1.152	28.964
260500	245298	31.370	4.4159	18013.	1.297	1200.	9.916 + 4	1.181 - 2	28.964
261000	245587	31.368	4.3244	17955.	1.266	1198.	9.659	1.210	28.964
261500	245875	31.366	4.2359	17898.	1.235	1196.	9.409	1.240	28.964
262000	246164	31.364	4.1504	17840.	1.205	1194.	9.164	1.271	28.964
262500	246452	31.362	4.0679	17782.	1.175	1192.	8.924	1.303	28.964
263000	246741	31.360	3.9884	17724.	1.145	1190.	8.687	1.336	28.964
263500	247029	31.358	3.9119	17667.	1.115	1188.	8.454	1.374	28.964
264000	247318	31.356	3.8384	17609.	1.086	1186.	8.222	1.413	28.964
264500	247606	31.354	3.7679	17552.	1.057	1184.	8.000	1.454	28.964
265000	247895	31.352	3.6994	17494.	1.029	1182.	7.775	1.495	28.964
265500	248183	31.350	3.6329	17437.	1.001	1180.	7.554 + 4	1.538 - 2	28.964
266000	248472	31.348	3.5684	17379.	9.725 +19	1178.	7.339	1.581	28.964
266500	248760	31.346	3.5059	17322.	9.500	1176.	7.127	1.626	28.964
267000	249049	31.344	3.4454	17264.	9.283	1174.	6.930	1.673	28.964
267500	249337	31.342	3.3869	17207.	9.075	1172.	6.736	1.720	28.964
268000	249626	31.340	3.3304	17149.	8.877	1170.	6.551	1.769	28.964
268500	249914	31.338	3.2759	17092.	8.686	1168.	6.369	1.820	28.964
269000	250203	31.336	3.2234	17034.	8.500	1166.	6.193	1.872	28.964
269500	250491	31.334	3.1719	16977.	8.319	1164.	6.022	1.925	28.964
270000	250780	31.332	3.1214	16920.	8.143	1162.		1.980	28.964

TABLE X.—Concluded
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
H , ft	Z , ft								
270000	270000	31.35	2.100 - 5	17807.	4.517 +10	1192.	4.700 + 4	2.485 - 2	28.966
270000	270000	31.35	2.040	17808.	4.158	1192.	4.662	2.537	28.966
270000	270000	31.35	1.982	17809.	5.963	1192.	4.530	2.612	28.966
270000	270000	31.35	1.925	17809.	5.794	1192.	4.401	2.709	28.966
270000	270000	31.35	1.871	17810.	5.629	1192.	4.276	2.788	28.966
270000	270000	31.35	1.817	17811.	5.469	1192.	4.155	2.870	28.966
270000	270000	31.35	1.764	17812.	5.316	1192.	4.037	2.954	28.966
270000	270000	31.35	1.715	17813.	5.163	1192.	3.922	3.040	28.966
270000	270000	31.35	1.667	17814.	5.016	1192.	3.810	3.129	28.966
270000	270000	31.35	1.619	17815.	4.874	1192.	3.703	3.220	28.966
275000	275000	31.33	1.573 - 5	17815.	4.735 +10	1192.	3.597 + 4	3.314 - 2	28.966
275000	275000	31.33	1.528	17816.	4.601	1192.	3.495	3.411	28.966
275000	275000	31.33	1.485	17817.	4.470	1192.	3.396	3.511	28.966
275000	275000	31.33	1.443	17818.	4.343	1192.	3.299	3.614	28.966
275000	275000	31.33	1.402	17819.	4.220	1192.	3.205	3.719	28.966
275000	275000	31.33	1.362	17820.	4.100	1192.	3.114	3.828	28.966
275000	275000	31.33	1.323	17821.	3.983	1192.	3.026	3.940	28.966
275000	275000	31.33	1.285	17822.	3.870	1192.	2.940	4.055	28.966
275000	275000	31.33	1.247	17823.	3.760	1192.	2.856	4.174	28.966
275000	275000	31.33	1.213	17823.	3.654	1192.	2.775	4.296	28.966
280000	280000	31.32	1.179 - 5	17824.	3.550 +10	1192.	2.696 + 4	4.422 - 2	28.966
280000	280000	31.32	1.145	17825.	3.449	1192.	2.620	4.551	28.966
280000	280000	31.32	1.113	17826.	3.351	1192.	2.545	4.684	28.966
280000	280000	31.32	1.081	17827.	3.256	1192.	2.473	4.821	28.966
280000	280000	31.32	1.050	17828.	3.163	1192.	2.403	4.962	28.966
280000	280000	31.32	1.020	17829.	3.073	1192.	2.334	5.107	28.966
280000	280000	31.32	0.992 - 6	17829.	2.986	1192.	2.268	5.254	28.966
280000	280000	31.32	0.965	17830.	2.901	1192.	2.204	5.410	28.966
280000	280000	31.32	0.938	17831.	2.819	1192.	2.141	5.568	28.966
280000	280000	31.32	0.912	17832.	2.739	1192.	2.080	5.731	28.966
285000	285000	31.30	0.881 - 6	17833.	2.661 +10	1192.	2.021 + 4	5.899 - 2	28.966
285000	285000	31.30	0.857	17834.	2.585	1192.	1.964	6.071	28.966
285000	285000	31.30	0.835	17835.	2.512	1192.	1.908	6.249	28.966
285000	285000	31.30	0.814	17836.	2.441	1192.	1.854	6.431	28.966
285000	285000	31.29	0.794	17837.	2.371	1192.	1.801	6.619	28.966
285000	285000	31.29	0.774	17837.	2.304	1192.	1.750	6.813	28.966
285000	285000	31.29	0.754	17838.	2.238	1192.	1.700	7.012	28.966
285000	285000	31.29	0.735	17839.	2.175	1192.	1.652	7.217	28.966
285000	285000	31.29	0.716	17840.	2.113	1192.	1.605	7.428	28.966
285000	285000	31.29	0.697	17841.	2.053	1192.	1.559	7.645	28.966
290000	290000	31.29	0.678 - 6	17841.	1.995 +10	1192.	1.515 + 4	7.869 - 2	28.966
290000	290000	31.28	0.658	17842.	1.938	1192.	1.472	8.099	28.966
290000	290000	31.28	0.638	17843.	1.883	1192.	1.430	8.336	28.966
290000	290000	31.28	0.618	17844.	1.829	1192.	1.388	8.585	28.966
290000	290000	31.28	0.598	17845.	1.777	1192.	1.347	8.840	28.966
290000	290000	31.28	0.578	17846.	1.725	1192.	1.306	9.100	28.966
290000	290000	31.28	0.558	17847.	1.675	1192.	1.266	9.365	28.966
290000	290000	31.28	0.538	17848.	1.625	1192.	1.227	9.635	28.966
290000	290000	31.28	0.518	17849.	1.575	1192.	1.188	9.910	28.966
290000	290000	31.28	0.498	17850.	1.525	1192.	1.149	10.190	28.966
290000	290000	31.28	0.478	17851.	1.475	1192.	1.110	10.475	28.966
290000	290000	31.28	0.458	17852.	1.425	1192.	1.071	10.765	28.966
290000	290000	31.28	0.438	17853.	1.375	1192.	1.032	11.060	28.966
290000	290000	31.28	0.418	17854.	1.325	1192.	0.993	11.360	28.966
290000	290000	31.28	0.398	17855.	1.275	1192.	0.954	11.665	28.966
290000	290000	31.28	0.378	17856.	1.225	1192.	0.915	11.975	28.966
290000	290000	31.28	0.358	17857.	1.175	1192.	0.876	12.290	28.966
290000	290000	31.28	0.338	17858.	1.125	1192.	0.837	12.610	28.966
290000	290000	31.28	0.318	17859.	1.075	1192.	0.798	12.935	28.966
290000	290000	31.28	0.298	17860.	1.025	1192.	0.759	13.265	28.966
290000	290000	31.28	0.278	17861.	0.975	1192.	0.720	13.600	28.966
290000	290000	31.28	0.258	17862.	0.925	1192.	0.681	13.940	28.966
290000	290000	31.28	0.238	17863.	0.875	1192.	0.642	14.285	28.966
290000	290000	31.28	0.218	17864.	0.825	1192.	0.603	14.635	28.966
290000	290000	31.28	0.198	17865.	0.775	1192.	0.564	14.990	28.966
290000	290000	31.28	0.178	17866.	0.725	1192.	0.525	15.350	28.966
290000	290000	31.28	0.158	17867.	0.675	1192.	0.486	15.715	28.966
290000	290000	31.28	0.138	17868.	0.625	1192.	0.447	16.085	28.966
290000	290000	31.28	0.118	17869.	0.575	1192.	0.408	16.460	28.966
290000	290000	31.28	0.098	17870.	0.525	1192.	0.369	16.840	28.966
290000	290000	31.28	0.078	17871.	0.475	1192.	0.330	17.225	28.966
290000	290000	31.28	0.058	17872.	0.425	1192.	0.291	17.615	28.966
290000	290000	31.28	0.038	17873.	0.375	1192.	0.252	18.010	28.966
290000	290000	31.28	0.018	17874.	0.325	1192.	0.213	18.410	28.966
290000	290000	31.28	0.000	17875.	0.275	1192.	0.174	18.815	28.966
290000	290000	31.28	0.000	17876.	0.225	1192.	0.135	19.225	28.966
290000	290000	31.28	0.000	17877.	0.175	1192.	0.096	19.640	28.966
290000	290000	31.28	0.000	17878.	0.125	1192.	0.057	20.060	28.966
290000	290000	31.28	0.000	17879.	0.075	1192.	0.018	20.485	28.966
290000	290000	31.28	0.000	17880.	0.025	1192.	0.000	20.915	28.966
290000	290000	31.28	0.000	17881.	0.000	1192.	0.000	21.350	28.966
290000	290000	31.28	0.000	17882.	0.000	1192.	0.000	21.790	28.966
290000	290000	31.28	0.000	17883.	0.000	1192.	0.000	22.235	28.966
290000	290000	31.28	0.000	17884.	0.000	1192.	0.000	22.685	28.966
290000	290000	31.28	0.000	17885.	0.000	1192.	0.000	23.140	28.966
290000	290000	31.28	0.000	17886.	0.000	1192.	0.000	23.600	28.966
290000	290000	31.28	0.000	17887.	0.000	1192.	0.000	24.065	28.966
290000	290000	31.28	0.000	17888.	0.000	1192.	0.000	24.535	28.966
290000	290000	31.28	0.000	17889.	0.000	1192.	0.000	25.010	28.966
290000	290000	31.28	0.000	17890.	0.000	1192.	0.000	25.490	28.966
290000	290000	31.28	0.000	17891.	0.000	1192.	0.000	25.975	28.966
290000	290000	31.28	0.000	17892.	0.000	1192.	0.000	26.465	28.966
290000	290000	31.28	0.000	17893.	0.000	1192.	0.000	26.960	28.966
290000	290000	31.28	0.000	17894.	0.000	1192.	0.000	27.460	28.966
290000	290000	31.28	0.000	17895.	0.000	1192.	0.000	27.965	28.966
290000	290000	31.28	0.000	17896.	0.000	1192.	0.000	28.475	28.966
290000	290000	31.28	0.000	17897.	0.000	1192.	0.000	28.990	28.966
290000	290000	31.28	0.000	17898.	0.000	1192.	0.000	29.510	28.966
290000	290000	31.28	0.000	17899.	0.000	1192.	0.000	30.035	28.966
290000	290000	31.28	0.000	17900.	0.000	1192.	0.000	30.565	28.966
290000	290000	31.28	0.000	17901.	0.000	1192.	0.000	31.100	28.966
290000	290000	31.28	0.000	17902.	0.000	1192.	0.000	31.640	28.966
290000	290000	31.28	0.000	17903.	0.000	1192.	0.000	32.185	28.966
290000	290000	31.28	0.000	17904.	0.000	1192.	0.000	32.735	28.966
290000	290000	31.28	0.000	17905.	0.000	1192.	0.000	33.290	28.966
290000	290000	31.28	0.000	17906.	0.000	1192.	0.000	33.850	28.966
290000	290000	31.28	0.000	17907.	0.000	1192.	0.000	34.415	28.966
290000	290000	31.28	0.000	17908.	0.000	1192.	0.000	34.985	28.966
290000	290000	31.28	0.000	17909.	0.000	1192.	0.000	35.560	28.966
290000	290000	31.28	0.000	17910.	0.000	1192.	0.000	36.	

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Accel. due to gravity g , ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z, ft	H, ft								
270000	266569	31.34	2.563 - 5	17801.	7.708 +10	1192.	8.855 + 4	2.034 - 2	28.964
270300	267036	31.34	2.491	17802.	7.594	1192.	8.693	2.004	28.964
271000	267523	31.35	2.422	17802.	7.267	1192.	5.535	2.154	28.964
271500	268010	31.35	2.355	17803.	7.095	1192.	5.382	2.215	28.964
272000	268498	31.35	2.290	17804.	6.889	1192.	5.233	2.278	28.964
272500	268985	31.35	2.226	17805.	6.698	1192.	5.088	2.343	28.964
273000	269472	31.35	2.165	17806.	6.513	1192.	4.947	2.410	28.964
273500	269959	31.35	2.105	17807.	6.335	1192.	4.810	2.479	28.964
274000	270446	31.34	2.046	17808.	6.157	1192.	4.677	2.549	28.964
274500	270933	31.34	1.989	17808.	5.986	1192.	4.547	2.622	28.964
275000	271420	31.34	1.934 - 5	17809.	5.821 +10	1192.	4.421 + 4	2.697 - 2	28.964
275500	271906	31.34	1.881	17810.	5.660	1192.	4.299	2.773	28.964
276000	272395	31.34	1.828	17811.	5.503	1192.	4.180	2.852	28.964
276500	272882	31.34	1.778	17812.	5.351	1192.	4.064	2.933	28.964
277000	273369	31.34	1.728	17813.	5.202	1192.	3.952	3.017	28.964
277500	273856	31.33	1.681	17813.	5.056	1192.	3.844	3.103	28.964
278000	274342	31.33	1.634	17814.	4.916	1192.	3.736	3.191	28.964
278500	274829	31.33	1.589	17815.	4.782	1192.	3.633	3.282	28.964
279000	275316	31.33	1.545	17816.	4.650	1192.	3.532	3.375	28.964
279500	275803	31.33	1.502	17817.	4.521	1192.	3.434	3.472	28.964
280000	276290	31.33	1.460 - 5	17818.	4.396 +10	1192.	3.339 + 4	3.570 - 2	28.964
280500	276777	31.33	1.420	17818.	4.276	1192.	3.247	3.672	28.964
281000	277264	31.32	1.380	17819.	4.156	1192.	3.157	3.774	28.964
281500	277750	31.32	1.342	17820.	4.041	1192.	3.070	3.884	28.964
282000	278237	31.32	1.305	17821.	3.929	1192.	2.985	3.994	28.964
282500	278724	31.32	1.269	17822.	3.821	1192.	2.902	4.108	28.964
283000	279211	31.32	1.234	17823.	3.715	1192.	2.822	4.225	28.964
283500	279697	31.32	1.199	17824.	3.612	1192.	2.744	4.345	28.964
284000	280184	31.32	1.166	17824.	3.512	1192.	2.668	4.469	28.964
284500	280671	31.31	1.134	17825.	3.415	1192.	2.594	4.596	28.964
285000	281157	31.31	1.102 - 5	17826.	3.321 +10	1192.	2.522 + 4	4.727 - 2	28.964
285500	281644	31.31	1.072	17827.	3.229	1192.	2.453	4.861	28.964
286000	282130	31.31	1.042	17828.	3.140	1192.	2.385	4.999	28.964
286500	282617	31.31	1.013	17829.	3.053	1192.	2.319	5.142	28.964
287000	283103	31.31	0.985 - 4	17829.	2.968	1192.	2.255	5.288	28.964
287500	283590	31.30	0.958	17830.	2.886	1192.	2.192	5.438	28.964
288000	284076	31.30	0.931	17831.	2.804	1192.	2.132	5.593	28.964
288500	284563	31.30	0.906	17832.	2.729	1192.	2.073	5.752	28.964
289000	285049	31.30	0.886	17833.	2.653	1192.	2.015	5.915	28.964
289500	285536	31.30	0.862	17834.	2.580	1192.	1.960	6.084	28.964
290000	286022	31.30	0.838 - 4	17835.	2.509 +10	1192.	1.906 + 4	6.257 - 2	28.964
290500	286509	31.30	0.814	17835.	2.439	1192.	1.853	6.434	28.964
291000	286995	31.29	0.790	17836.	2.372	1192.	1.802	6.617	28.964
291500	287481	31.29	0.767	17837.	2.306	1192.	1.752	6.804	28.964
292000	287967	31.29	0.744	17838.	2.243	1192.	1.703	6.999	28.964
292500	288454	31.29	0.721	17839.	2.181	1192.	1.654	7.198	28.964
293000	288940	31.29	0.698	17840.	2.120	1192.	1.611	7.403	28.964
293500	289426	31.29	0.675	17840.	2.062	1192.	1.564	7.613	28.964
294000	289912	31.29	0.652	17841.	2.005	1192.	1.523	7.829	28.964
294500	290399	31.28	0.629	17842.	1.949	1192.	1.481	8.052	28.964
295000	290885	31.28	0.606 - 4	17843.	1.895 +10	1192.	1.440 + 4	8.281 - 2	28.964
295500	291371	31.28	0.583	17844.	1.841	1193.	1.399	8.526	28.964
296000	291857	31.28	0.560	17845.	1.788	1194.	1.359	8.789	28.964
296500	292343	31.28	0.537	17846.	1.735	1194.	1.320	9.060	28.964
297000	292829	31.28	0.514	18002.	1.681	1197.	1.282	9.339	28.963
297500	293315	31.28	0.491	18048.	1.631	1199.	1.245	9.626	28.963
298000	293801	31.27	0.468	18094.	1.582	1200.	1.210	9.921	28.962
298500	294287	31.27	0.445	18140.	1.535	1202.	1.176	1.022 - 1	28.962
299000	294773	31.27	0.422	18186.	1.490	1203.	1.142	1.053	28.962
299500	295259	31.27	0.399	18232.	1.446	1205.	1.110	1.085	28.961
300000	295745	31.27	0.376 - 4	18278.	1.403 +10	1206.	1.079 + 4	1.118 - 1	28.961

TABLE X.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g, ft sec ⁻²	Specific weight γ , lb ft ⁻³ sec ⁻²	Pressure scale height H _p , ft	Number density n, ft ⁻³	Particle speed V, ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L, ft	Molecular weight M
Z, ft	H, ft								
300000	295765	31.27	4.652 - 6	18276.	1.403 +10	1200.	1.079 + 5	1.118 - 1	28.96
301000	296717	31.26	4.583	18370.	1.322	1209.	1.019	1.107	28.96
302000	297669	31.26	4.511	18462.	1.246	1212.	9.637 + 3	1.259	28.96
303000	298620	31.25	3.894	18555.	1.175	1219.	9.099	1.556	28.96
304000	299572	31.24	3.672	18647.	1.108	1210.	8.602	1.474	28.96
305000	300523	31.23	3.443	18739.	1.046	1221.	8.135	1.501	28.96
306000	301474	31.23	3.208	18831.	9.806	1224.	7.695	1.591	28.95
307000	302426	31.23	3.004	18923.	9.313	1227.	7.281	1.685	28.95
308000	303377	31.24	2.918	19016.	8.792	1230.	6.891	1.785	28.95
309000	304328	31.24	2.769	19108.	8.305	1233.	6.523	1.896	28.95
310000	305279	31.24	2.597 - 6	19200.	7.844 +17	1236.	6.177 + 3	2.001 - 1	28.95
311000	306230	31.24	2.454	19292.	7.416	1239.	5.851	2.117	28.95
312000	307181	31.23	2.319	19385.	7.008	1242.	5.544	2.240	28.94
313000	308132	31.23	2.192	19477.	6.626	1245.	5.254	2.369	28.94
314000	309083	31.23	2.073	19569.	6.267	1247.	4.981	2.505	28.94
315000	310034	31.22	1.961	19662.	5.929	1250.	4.723	2.648	28.94
316000	310985	31.22	1.855	19754.	5.610	1253.	4.479	2.798	28.93
317000	311936	31.22	1.755	19846.	5.310	1256.	4.249	2.954	28.93
318000	312887	31.21	1.662	19939.	5.027	1259.	4.032	3.122	28.93
319000	313838	31.21	1.573	20031.	4.761	1262.	3.827	3.297	28.92
320000	314789	31.21	1.490 - 6	20123.	4.510 +17	1265.	3.636 + 3	3.480 - 1	28.92
321000	315740	31.21	1.411	20216.	4.273	1267.	3.451	3.673	28.91
322000	316691	31.20	1.337	20308.	4.050	1270.	3.278	3.874	28.91
323000	317642	31.20	1.267	20401.	3.839	1273.	3.116	4.088	28.91
324000	318593	31.20	1.201	20493.	3.640	1276.	2.959	4.312	28.90
325000	319544	31.19	1.139	20586.	3.453	1279.	2.813	4.546	28.90
326000	320495	31.19	1.080	20679.	3.275	1282.	2.674	4.792	28.89
327000	321446	31.19	1.025	20771.	3.108	1284.	2.543	5.050	28.89
328000	322397	31.19	9.725 - 7	20863.	2.950	1287.	2.419	5.320	28.88
329000	323348	31.18	9.207	21011.	2.793	1292.	2.299	5.619	28.87
330000	324299	31.18	8.717 - 7	21164.	2.646 +17	1296.	2.185 + 3	5.933 - 1	28.87
331000	325250	31.18	8.254	21317.	2.507	1301.	2.078	6.261	28.86
332000	326201	31.17	7.823	21470.	2.374	1306.	1.976	6.606	28.85
333000	327152	31.17	7.415	21624.	2.253	1310.	1.880	6.967	28.85
334000	328103	31.17	7.032	21777.	2.137	1315.	1.790	7.345	28.84
335000	329054	31.16	6.670	21930.	2.028	1319.	1.704	7.740	28.83
336000	330005	31.16	6.330	22083.	1.925	1324.	1.624	8.153	28.82
337000	330956	31.16	6.009	22236.	1.828	1328.	1.547	8.586	28.82
338000	331907	31.16	5.706	22389.	1.737	1333.	1.475	9.038	28.81
339000	332858	31.15	5.420	22543.	1.650	1337.	1.406	9.510	28.80
340000	333809	31.15	5.151 - 7	22696.	1.569 +17	1342.	1.341 + 3	1.000 + 0	28.79
341000	334760	31.15	4.897	22849.	1.492	1346.	1.280	1.052	28.78
342000	335711	31.14	4.654	23003.	1.420	1351.	1.222	1.104	28.77
343000	336662	31.14	4.429	23156.	1.351	1355.	1.166	1.162	28.76
344000	337613	31.14	4.215	23310.	1.286	1360.	1.114	1.220	28.75
345000	338564	31.14	4.012	23463.	1.225	1364.	1.064	1.282	28.74
346000	339515	31.13	3.820	23616.	1.167	1368.	1.017	1.345	28.73
347000	340466	31.13	3.639	23770.	1.112	1373.	9.722 + 2	1.412	28.73
348000	341417	31.13	3.467	23923.	1.060	1377.	9.297	1.481	28.72
349000	342368	31.12	3.304	24077.	1.010	1381.	8.893	1.553	28.71
350000	343319	31.12	3.150 - 7	24231.	9.638 +16	1386.	8.509 + 2	1.629 + 0	28.69
351000	344270	31.12	3.004	24384.	9.195	1390.	8.144	1.707	28.68
352000	345221	31.11	2.864	24538.	8.774	1394.	7.796	1.788	28.67
353000	346172	31.11	2.734	24691.	8.378	1399.	7.464	1.873	28.66
354000	347123	31.11	2.610	24845.	8.001	1403.	7.152	1.962	28.66
355000	348074	31.11	2.492	24999.	7.643	1407.	6.852	2.056	28.63
356000	349025	31.10	2.380	25153.	7.303	1411.	6.567	2.159	28.62
357000	350000	31.10	2.273	25306.	6.980	1416.	6.296	2.269	28.61
358000	350975	31.10	2.172	25460.	6.674	1420.	6.037	2.382	28.60
359000	351950	31.09	2.076	25614.	6.382	1424.	5.791	2.499	28.58
360000	352900	31.09	1.985 - 7	25768.	6.105 +16	1428.	5.554 + 2	2.571 + 0	28.57
361000	353851	31.09	1.897	25922.	5.838	1433.	5.330	2.688	28.56
362000	354802	31.09	1.805	26076.	5.577	1441.	5.103	2.825	28.54
363000	355753	31.08	1.718	26230.	5.291	1450.	4.887	2.966	28.53
364000	356704	31.08	1.634	26384.	5.022	1458.	4.683	3.113	28.52
365000	357655	31.07	1.559	26538.	4.767	1466.	4.490	3.265	28.50
366000	358606	31.07	1.486	26692.	4.525	1474.	4.304	3.423	28.49
367000	359557	31.07	1.417	26846.	4.294	1482.	4.133	3.587	28.48
368000	360508	31.07	1.352	27000.	4.074	1490.	3.968	3.754	28.46
369000	361459	31.06	1.291	27154.	3.863	1498.	3.811	3.932	28.45
370000	362410	31.06	1.234 - 7	27308.	3.661 +16	1506.	3.662 + 2	4.114 + 0	28.43
371000	363361	31.06	1.179	27462.	3.469	1514.	3.520	4.302	28.42
372000	364312	31.06	1.127	27616.	3.291	1522.	3.386	4.494	28.40
373000	365263	31.05	1.078	27770.	3.122	1530.	3.258	4.697	28.39
374000	366214	31.05	1.032	27924.	2.964	1538.	3.134	4.905	28.37
375000	367165	31.04	9.882 - 8	28078.	2.816 +16	1546.	3.019	5.119	28.36
376000	368116	31.04	9.466	28232.	2.679	1553.	2.909	5.341	28.34
377000	369067	31.04	9.071	28386.	2.548	1561.	2.803	5.570	28.33
378000	370018	31.04	8.697	28540.	2.423	1569.	2.702	5.806	28.31
379000	370969	31.04	8.341	28694.	2.305	1576.	2.606	6.049	28.30

TABLE II.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight ω , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
300000	373199	31.03	0.003 - 8	31751.	2.491 +14	1584.	2.514 + 2	6.501 + 0	26.20
301000	374163	31.03	7.682	32057.	2.393	1592.	2.624	6.540	26.27
302000	375128	31.03	7.377	32364.	2.299	1599.	2.743	6.627	26.35
303000	376092	31.02	7.084	32670.	2.210	1607.	2.863	7.109	26.34
304000	377056	31.02	6.816	32977.	2.125	1614.	2.985	7.586	26.32
305000	378020	31.02	6.564	33284.	2.044	1621.	3.112	7.678	26.31
306000	378984	31.02	6.299	33591.	1.967	1629.	3.241	7.979	26.19
307000	379948	31.01	6.054	33897.	1.894	1636.	3.374	8.299	26.17
308000	380912	31.01	5.828	34204.	1.823	1643.	3.509	8.608	26.16
309000	381876	31.01	5.611	34511.	1.757	1651.	3.647	8.956	26.16
390000	382840	31.00	5.403 - 8	34818.	1.693 +14	1658.	3.786 + 2	9.273 + 0	26.13
391000	383803	31.00	5.203	35125.	1.632	1665.	3.925	9.625	26.11
392000	384767	31.00	5.014	35432.	1.572	1672.	4.064	9.974	26.10
393000	385730	30.99	4.835	35740.	1.510	1680.	4.204	1.036 + 1	26.08
394000	386693	30.99	4.650	36048.	1.441	1689.	4.342	1.073	26.06
395000	387656	30.99	4.469	36356.	1.378	1697.	4.481	1.112	26.05
396000	388620	30.99	4.290	36664.	1.316	1705.	4.620	1.152	26.05
397000	389583	30.98	4.111	36972.	1.256	1713.	4.760	1.192	26.03
398000	390546	30.98	3.933	37280.	1.197	1721.	4.900	1.232	26.02
399000	391508	30.98	3.754	37588.	1.139	1729.	5.040	1.274	26.00
400000	392471	30.97	3.584 - 8	37897.	1.084 +14	1737.	5.183 + 2	5.381 + 1	27.97
401000	393434	30.97	3.420	38205.	1.031	1745.	5.325	5.524	27.94
402000	394397	30.96	3.260	38513.	0.979 +15	1753.	5.469	5.667	27.91
403000	395360	30.96	3.105	38821.	0.928	1761.	5.613	5.810	27.88
404000	396323	30.95	2.955	39129.	0.878	1769.	5.757	5.954	27.85
405000	397286	30.95	2.807	39437.	0.829	1777.	5.901	6.097	27.82
406000	398249	30.94	2.662	39745.	0.781	1785.	6.045	6.240	27.79
407000	399212	30.94	2.519	40053.	0.734	1793.	6.189	6.383	27.76
408000	400175	30.93	2.378	40361.	0.688	1801.	6.333	6.526	27.73
409000	401138	30.93	2.239	40669.	0.643	1809.	6.477	6.669	27.70
410000	402101	30.92	2.102	40977.	0.599	1817.	6.621	6.812	27.67
411000	403064	30.91	1.967	41285.	0.556	1825.	6.765	6.955	27.64
412000	404027	30.91	1.834	41593.	0.514	1833.	6.909	7.098	27.61
413000	404990	30.90	1.702	41901.	0.473	1841.	7.053	7.241	27.58
414000	405953	30.89	1.571	42209.	0.433	1849.	7.197	7.384	27.56
415000	406916	30.88	1.441	42517.	0.393	1857.	7.341	7.527	27.53
416000	407879	30.87	1.312	42825.	0.354	1865.	7.485	7.670	27.50
417000	408842	30.86	1.184	43133.	0.316	1873.	7.629	7.813	27.47
418000	409805	30.86	1.057	43441.	0.279	1881.	7.773	7.956	27.43
419000	410768	30.85	0.932 - 8	43749.	0.243 +15	1889.	7.917	8.099	27.41
420000	411731	30.85	0.808	44057.	0.208	1897.	8.061	8.242	27.38
421000	412694	30.84	0.685	44365.	0.174	1905.	8.205	8.385	27.36
422000	413657	30.84	0.563	44673.	0.141	1913.	8.349	8.528	27.34
423000	414620	30.83	0.442	44981.	0.109	1921.	8.493	8.671	27.31
424000	415583	30.83	0.322	45289.	0.078	1929.	8.637	8.814	27.29
425000	416546	30.82	0.203	45597.	0.048	1937.	8.781	8.957	27.27
426000	417509	30.82	0.084	45905.	0.019	1945.	8.925	9.100	27.24
427000	418472	30.81	0.000	46213.	0.000	1953.	9.069	9.243	27.21
428000	419435	30.81	0.000	46521.	0.000	1961.	9.213	9.386	27.19
429000	420398	30.80	0.000	46829.	0.000	1969.	9.357	9.529	27.17
430000	421361	30.79	0.000	47137.	0.000	1977.	9.501	9.672	27.15
431000	422324	30.78	0.000	47445.	0.000	1985.	9.645	9.815	27.13
432000	423287	30.77	0.000	47753.	0.000	1993.	9.789	9.958	27.12
433000	424250	30.77	0.000	48061.	0.000	2001.	9.933	10.101	27.10
434000	425213	30.76	0.000	48369.	0.000	2009.	10.077	10.244	27.08
435000	426176	30.75	0.000	48677.	0.000	2017.	10.221	10.387	27.06
436000	427139	30.75	0.000	48985.	0.000	2025.	10.365	10.530	27.04
437000	428102	30.74	0.000	49293.	0.000	2033.	10.509	10.673	27.03
438000	429065	30.74	0.000	49601.	0.000	2041.	10.653	10.816	27.01
439000	430028	30.73	0.000	49909.	0.000	2049.	10.797	10.959	27.00
440000	430991	30.73	0.000	50217.	0.000	2057.	10.941	11.102	26.98
441000	431954	30.72	0.000	50525.	0.000	2065.	11.085	11.245	26.97
442000	432917	30.72	0.000	50833.	0.000	2073.	11.229	11.388	26.95
443000	433880	30.71	0.000	51141.	0.000	2081.	11.373	11.531	26.93
444000	434843	30.71	0.000	51449.	0.000	2089.	11.517	11.674	26.92
445000	435806	30.70	0.000	51757.	0.000	2097.	11.661	11.817	26.90
446000	436769	30.70	0.000	52065.	0.000	2105.	11.805	11.960	26.89
447000	437732	30.69	0.000	52373.	0.000	2113.	11.949	12.103	26.87
448000	438695	30.69	0.000	52681.	0.000	2121.	12.093	12.246	26.85
449000	439658	30.68	0.000	52989.	0.000	2129.	12.237	12.389	26.84
450000	440621	30.68	0.000	53297.	0.000	2137.	12.381	12.532	26.82
451000	441584	30.67	0.000	53605.	0.000	2145.	12.525	12.675	26.81
452000	442547	30.67	0.000	53913.	0.000	2153.	12.669	12.818	26.79
453000	443510	30.66	0.000	54221.	0.000	2161.	12.813	12.961	26.78
454000	444473	30.66	0.000	54529.	0.000	2169.	12.957	13.104	26.76
455000	445436	30.65	0.000	54837.	0.000	2177.	13.101	13.247	26.75
456000	446399	30.65	0.000	55145.	0.000	2185.	13.245	13.390	26.73
457000	447362	30.65	0.000	55453.	0.000	2193.	13.389	13.533	26.72
458000	448325	30.64	0.000	55761.	0.000	2201.	13.533	13.676	26.70
459000	449288	30.64	0.000	56069.	0.000	2209.	13.677	13.819	26.69
460000	450251	30.63	0.000	56377.	0.000	2217.	13.821	13.962	26.67
461000	451214	30.63	0.000	56685.	0.000	2225.	13.965	14.105	26.66
462000	452177	30.62	0.000	56993.	0.000	2233.	14.109	14.248	26.64
463000	453140	30.62	0.000	57301.	0.000	2241.	14.253	14.391	26.63
464000	454103	30.61	0.000	57609.	0.000	2249.	14.397	14.534	26.61
465000	455066	30.61	0.000	57917.	0.000	2257.	14.541	14.677	26.60
466000	456029	30.60	0.000	58225.	0.000	2265.	14.685	14.820	26.58
467000	456992	30.60	0.000	58533.	0.000	2273.	14.829	14.963	26.57
468000	457955	30.59	0.000	58841.	0.000	2281.	14.973	15.106	26.55
469000	458918	30.59	0.000	59149.	0.000	2289.	15.117	15.249	26.54
470000	459881	30.58	0.000	59457.	0.000	2297.	15.261	15.392	26.52
471000	460844	30.58	0.000	59765.	0.000	2305.	15.405	15.535	26.51
472000	461807	30.57	0.000	60073.	0.000	2313.	15.549	15.678	26.49
473000	462770	30.57	0.000	60381.	0.000	2321.	15.693	15.821	26.48
474000	463733	30.56	0.000	60689.	0.000	2329.	15.837	15.964	26.46
475000	464696	30.56	0.000	61000.	0.000	2337.	15.981	16.107	26.45
476000	465659	30.55	0.000	61308.	0.000	2345.	16.125	16.250	26.43
477000	466622	30.55	0.000	61616.	0.000	2353.	16.269	16.393	26.42
478000	467585	30.54	0.000	61924.	0.000	2361.	16.413	16.536	26.40
479000	468548	30.54	0.000	62232.	0.000	2369.	16.557	16.679	26.39
480000	469511	30.53	0.000	62540.	0.000	2377.	16.701	16.822	26.37
481000	470474	30.53	0.000	62848.	0.000	2385.	16.845	16.965	26.36
482000	471437	30.52	0.000	63156.	0.000	2393.	16.989	17.108	26.34
483000	472400	30.52	0.000	63464.	0.000	2401.	17.133	17.251	26.33
484000	473363	30.51	0.000	63772.	0.000	2409.	17.277	17.394	26.31
485000	474326	30.51	0.000	64080.	0.000	2417.	17.421	17.537	26.30
486000	475289	30.50	0.000	64388.	0.000	2425.	17.565	17.680	26.28
487000	476252	30.50	0.000	64696.	0.000	2433.	17.709	17.823	26.27
488000	477215	30.49	0.000	65004.	0.000	2441.	17.853	17.966	26.25
489000	478178	30.49	0.000	65312.	0.000	2449.	17.997	18.109	26.24
490000	479141	30.48							

GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
370000	307347	30.63	2.344 - 9	109771.	7.099 +14	2926.	1.472 + 1	1.987 + 2	26.70
380000	309251	30.62	2.302	110714.	7.097	2930.	1.441	2.039	26.68
390000	311154	30.62	2.263	111656.	7.092	2936.	1.410	2.092	26.67
400000	313057	30.61	2.187	112598.	7.086	2940.	1.381	2.143	26.65
410000	314960	30.60	2.136	113539.	7.100	2946.	1.354	2.192	26.64
420000	316863	30.59	2.087	114481.	7.082	2952.	1.328	2.242	26.63
430000	318766	30.58	2.040	115422.	7.067	2958.	1.302	2.292	26.62
440000	320669	30.57	1.993	116364.	7.051	2964.	1.277	2.344	26.60
450000	322572	30.56	1.948	117305.	7.035	2970.	1.252	2.396	26.57
460000	324475	30.55	1.904	118246.	7.019	2976.	1.228	2.449	26.55
470000	326378	30.54	1.862 - 9	119187.	6.970 +14	3017.	1.203 + 1	2.503 + 2	26.53
480000	328281	30.54	1.822	120128.	6.954	3023.	1.182	2.558	26.52
490000	330184	30.54	1.780	121069.	6.905	3032.	1.160	2.614	26.50
500000	332087	30.53	1.741	122010.	6.879	3040.	1.138	2.671	26.48
510000	333990	30.52	1.703	122951.	6.853	3048.	1.117	2.729	26.47
520000	335893	30.52	1.664	123892.	6.832	3056.	1.097	2.787	26.45
530000	337796	30.52	1.629	124833.	6.816	3064.	1.076	2.847	26.44
540000	339699	30.51	1.594	125774.	6.799	3072.	1.057	2.907	26.42
550000	341602	30.51	1.560	126715.	6.783	3080.	1.037	2.969	26.41
560000	343505	30.51	1.527	127656.	6.766	3087.	1.017	3.037	26.40
570000	345408	30.51	1.497 - 9	128597.	6.750 +14	3092.	9.991 + 0	3.005 + 2	26.40
580000	347311	30.51	1.467	129538.	6.734	3098.	9.820	3.155	26.41
590000	349214	30.50	1.439	130479.	6.718	3103.	9.652	3.215	26.39
600000	351117	30.50	1.410	131420.	6.701	3109.	9.486	3.276	26.37
610000	353020	30.49	1.383	132361.	6.685	3116.	9.320	3.339	26.35
620000	354923	30.48	1.356	133302.	6.668	3122.	9.170	3.402	26.34
630000	356826	30.48	1.330	134243.	6.652	3128.	9.016	3.466	26.32
640000	358729	30.47	1.304	135184.	6.635	3134.	8.865	3.531	26.30
650000	360632	30.47	1.279	136125.	6.619	3140.	8.717	3.597	26.28
660000	362535	30.46	1.254	137066.	6.602	3146.	8.573	3.664	26.26
670000	364438	30.46	1.231 - 9	138007.	6.586 +14	3152.	8.431 + 0	3.732 + 2	26.24
680000	366341	30.45	1.207	138948.	6.569	3158.	8.291	3.801	26.23
690000	368244	30.44	1.184	139889.	6.553	3164.	8.155	3.871	26.21
700000	370147	30.44	1.162	140830.	6.536	3170.	8.022	3.942	26.19
710000	372050	30.43	1.140	141771.	6.520	3176.	7.891	4.014	26.17
720000	373953	30.43	1.119	142712.	6.503	3182.	7.762	4.088	26.15
730000	375856	30.42	1.099	143653.	6.487	3188.	7.637	4.162	26.13
740000	377759	30.42	1.077	144594.	6.470	3194.	7.513	4.237	26.12
750000	379662	30.41	1.057	145535.	6.454	3200.	7.392	4.313	26.10
760000	381565	30.40	1.036	146476.	6.437	3206.	7.274	4.391	26.08
770000	383468	30.40	1.016 - 9	147417.	6.421 +14	3212.	7.158 + 0	4.470 + 2	26.06
780000	385371	30.39	9.997 -10	148358.	6.404	3218.	7.044	4.549	26.04
790000	387274	30.39	9.814	149299.	6.388	3224.	6.932	4.630	26.03
800000	389177	30.38	9.635	150240.	6.371	3230.	6.823	4.712	26.01
810000	391080	30.38	9.459	151181.	6.355	3236.	6.715	4.795	25.99
820000	392983	30.37	9.284	152122.	6.338	3242.	6.610	4.880	25.97
830000	394886	30.37	9.120	153063.	6.322	3248.	6.506	4.965	25.95
840000	396789	30.36	8.955	154004.	6.305	3254.	6.405	5.052	25.94
850000	398692	30.35	8.794	154945.	6.289	3260.	6.306	5.140	25.92
860000	400595	30.35	8.637	155886.	6.272	3266.	6.208	5.229	25.90
870000	402498	30.34	8.483 -10	156827.	6.256 +14	3272.	6.112 + 0	5.319 + 2	25.88
880000	404401	30.34	8.332	157768.	6.239	3278.	6.018	5.411	25.86
890000	406304	30.33	8.184	158709.	6.223	3284.	5.927	5.502	25.85
900000	408207	30.33	8.040	159650.	6.206	3290.	5.839	5.591	25.83
910000	410110	30.32	7.901	160591.	6.190	3296.	5.753	5.682	25.81
920000	412013	30.31	7.761	161532.	6.173	3302.	5.668	5.773	25.79
930000	413916	30.31	7.622	162473.	6.157	3308.	5.584	5.864	25.77
940000	415819	30.30	7.484	163414.	6.140	3314.	5.502	5.960	25.76
950000	417722	30.30	7.349	164355.	6.124	3320.	5.422	6.055	25.74
960000	419625	30.29	7.217	165296.	6.107	3326.	5.343	6.152	25.72
970000	421528	30.29	7.088 -10	166237.	6.091 +14	3332.	5.265 + 0	6.250 + 2	25.70
980000	423431	30.28	6.960	167178.	6.074	3338.	5.188	6.349	25.68
990000	425334	30.27	6.833	168119.	6.058	3344.	5.113	6.449	25.67
1000000	427237	30.27	6.709	169060.	6.041	3350.	5.039	6.551	25.65
1010000	429140	30.26	6.587	170001.	6.025	3356.	4.964	6.654	25.63
1020000	431043	30.25	6.468	170942.	6.008	3362.	4.890	6.759	25.61
1030000	432946	30.25	6.351	171883.	5.992	3368.	4.815	6.865	25.60
1040000	434849	30.25	6.235	172824.	5.975	3374.	4.741	6.972	25.58
1050000	436752	30.24	6.120	173765.	5.959	3380.	4.668	7.081	25.56
1060000	438655	30.24	6.006	174706.	5.942	3386.	4.595	7.191	25.54
1070000	440558	30.23	5.893 -10	175647.	5.926 +14	3392.	4.522 + 0	7.303 + 2	25.52
1080000	442461	30.22	5.782	176588.	5.909	3398.	4.449	7.416	25.51
1090000	444364	30.22	5.672	177529.	5.893	3404.	4.377	7.530	25.49
1100000	446267	30.21	5.563	178470.	5.876	3410.	4.305	7.644	25.47
1110000	448170	30.21	5.455	179411.	5.860	3416.	4.233	7.760	25.45
1120000	450073	30.20	5.348	180352.	5.843	3422.	4.161	7.876	25.44
1130000	451976	30.20	5.242	181293.	5.827	3428.	4.089	7.993	25.42
1140000	453879	30.19	5.137	182234.	5.810	3434.	4.017	8.112	25.40
1150000	455782	30.18	5.032	183175.	5.794	3440.	3.945	8.232	25.38
1160000	457685	30.18	4.928	184116.	5.777	3446.	3.873	8.353	25.36

TABLE II.—Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel. due to gravity g, ft sec ⁻²	Specific weight γ, lb ft ⁻³ sec ⁻²	Pressure scale height H _p , ft	Number density n, ft ⁻³	Particle speed V, ft sec ⁻¹	Collision frequency ν, sec ⁻¹	Mean free path L, ft	Molecular weight M
Z, ft	H, ft								
680000	650524	30.17	3.169	-10	147167.	1.048	1.955	8.501	25.35
682000	660399	30.17	3.007		147686.	1.019	1.900	8.630	25.33
684000	662276	30.16	3.007		147826.	1.792	1.847	8.740	25.31
686000	664152	30.16	2.924		148166.	1.765	1.794	8.892	25.29
688000	666023	30.15	2.852		148506.	1.739	1.741	9.025	25.26
690000	667897	30.15	2.776		148846.	1.713	1.690	9.160	25.24
692000	669771	30.14	2.702		149186.	1.688	1.640	9.297	25.24
694000	671645	30.13	2.628		149526.	1.664	1.590	9.435	25.22
696000	673519	30.13	2.557		149866.	1.640	1.541	9.575	25.21
698000	675390	30.12	2.486		150207.	1.615	1.493	9.717	25.19
700000	677263	30.12	2.417	-10	150547.	1.592	1.446	9.861	25.17
702000	679135	30.11	2.349		150888.	1.568	1.399	1.001	25.15
704000	681008	30.11	2.282		151229.	1.544	1.353	1.015	25.13
706000	682878	30.10	2.216		151570.	1.523	1.308	1.030	25.12
708000	684749	30.10	2.152		151911.	1.501	1.264	1.045	25.10
710000	686619	30.09	2.088		152252.	1.480	1.220	1.061	25.08
712000	688489	30.08	2.024		152593.	1.459	1.177	1.076	25.06
714000	690359	30.08	1.965		152935.	1.438	1.135	1.092	25.05
716000	692229	30.07	1.905		153276.	1.417	1.093	1.108	25.03
718000	694099	30.07	1.845		153618.	1.397	1.050	1.124	25.01
720000	695967	30.06	1.787	-10	153960.	1.377	1.012	1.140	24.99
722000	697836	30.06	1.730		154302.	1.357	0.972	1.156	24.98
724000	699706	30.05	1.676		154644.	1.338	0.933	1.173	24.96
726000	701572	30.05	1.619		154986.	1.319	0.894	1.190	24.94
728000	703439	30.04	1.565		155328.	1.301	0.857	1.207	24.92
730000	705306	30.03	1.511		155670.	1.282	0.819	1.224	24.90
732000	707173	30.03	1.459		156013.	1.264	0.782	1.241	24.89
734000	709040	30.02	1.407		156356.	1.247	0.746	1.259	24.87
736000	710906	30.02	1.357		156698.	1.229	0.711	1.277	24.85
738000	712771	30.01	1.307		157041.	1.212	0.675	1.295	24.83
740000	714637	30.01	1.258	-10	157384.	1.195	0.641	1.313	24.82
742000	716502	30.00	1.210		157727.	1.179	0.607	1.332	24.80
744000	718367	30.00	1.163		158070.	1.162	0.575	1.350	24.78
746000	720231	29.99	1.116		158414.	1.146	0.543	1.369	24.76
748000	722095	29.98	1.071		158757.	1.131	0.512	1.388	24.75
750000	723959	29.98	1.026		159101.	1.115	0.482	1.408	24.73
752000	725822	29.97	0.981		159444.	1.100	0.453	1.427	24.71
754000	727685	29.97	0.938		159788.	1.085	0.425	1.447	24.69
756000	729548	29.96	0.896		160131.	1.070	0.398	1.467	24.68
758000	731410	29.96	0.855		160475.	1.056	0.373	1.486	24.66
760000	733272	29.95	0.815	-10	160820.	1.042	0.349	1.506	24.64
762000	735134	29.95	0.775		161162.	1.028	0.325	1.527	24.62
764000	736995	29.94	0.736		161505.	1.015	0.302	1.547	24.60
766000	738856	29.93	0.698		161849.	1.001	0.280	1.568	24.59
768000	740716	29.93	0.660		162192.	0.988	0.258	1.589	24.57
770000	742577	29.92	0.623		162536.	0.975	0.237	1.609	24.55
772000	744436	29.92	0.586		162880.	0.962	0.217	1.631	24.53
774000	746296	29.91	0.550		163222.	0.949	0.197	1.652	24.52
776000	748155	29.91	0.514		163565.	0.937	0.178	1.674	24.50
778000	750014	29.90	0.480		163908.	0.925	0.160	1.696	24.48
780000	751873	29.90	0.445	-10	164250.	0.913	0.143	1.719	24.46
782000	753731	29.89	0.411		164593.	0.901	0.127	1.741	24.45
784000	755589	29.88	0.378		164935.	0.889	0.112	1.764	24.43
786000	757448	29.88	0.345		165278.	0.878	0.107	1.787	24.41
788000	759303	29.87	0.313		165620.	0.867	0.102	1.810	24.39
790000	761160	29.87	0.281		165963.	0.856	0.097	1.833	24.38
792000	763017	29.86	0.250		166305.	0.845	0.092	1.856	24.36
794000	764873	29.86	0.219		166648.	0.834	0.087	1.880	24.34
796000	766728	29.85	0.188		166990.	0.823	0.082	1.904	24.32
798000	768584	29.85	0.158		167332.	0.812	0.077	1.931	24.30
800000	770439	29.84	0.129	-10	167675.	0.802	0.072	1.956	24.29
802000	772295	29.83	0.103		168018.	0.792	0.067	1.981	24.28
804000	774150	29.81	0.080		168360.	0.782	0.062	2.005	24.26
806000	776006	29.80	0.058		168702.	0.772	0.057	2.030	24.25
808000	777861	29.78	0.037		169044.	0.762	0.052	2.055	24.23
810000	779716	29.77	0.017		169386.	0.752	0.047	2.080	24.21
812000	781571	29.76	0.017		169728.	0.742	0.042	2.105	24.19
814000	783426	29.75	0.017		170070.	0.732	0.037	2.130	24.17
816000	785281	29.74	0.017		170412.	0.722	0.032	2.155	24.15
818000	787136	29.73	0.017		170754.	0.712	0.027	2.180	24.13
820000	788991	29.72	0.017		171096.	0.702	0.022	2.205	24.11
822000	790846	29.71	0.017		171438.	0.692	0.017	2.230	24.09
824000	792701	29.70	0.017		171780.	0.682	0.012	2.255	24.07
826000	794556	29.69	0.017		172122.	0.672	0.007	2.280	24.05
828000	796411	29.68	0.017		172464.	0.662	0.002	2.305	24.03
830000	798266	29.67	0.017		172806.	0.652	0.002	2.330	24.01
832000	800121	29.66	0.017		173148.	0.642	0.002	2.355	23.99
834000	801976	29.65	0.017		173490.	0.632	0.002	2.380	23.97
836000	803831	29.64	0.017		173832.	0.622	0.002	2.405	23.95
838000	805686	29.63	0.017		174174.	0.612	0.002	2.430	23.93
840000	807541	29.62	0.017		174516.	0.602	0.002	2.455	23.91
842000	809396	29.61	0.017		174858.	0.592	0.002	2.480	23.89
844000	811251	29.60	0.017		175200.	0.582	0.002	2.505	23.87
846000	813106	29.59	0.017		175542.	0.572	0.002	2.530	23.85
848000	814961	29.58	0.017		175884.	0.562	0.002	2.555	23.83
850000	816816	29.57	0.017		176226.	0.552	0.002	2.580	23.81
852000	818671	29.56	0.017		176568.	0.542	0.002	2.605	23.79
854000	820526	29.55	0.017		176910.	0.532	0.002	2.630	23.77
856000	822381	29.54	0.017		177252.	0.522	0.002	2.655	23.75
858000	824236	29.53	0.017		177594.	0.512	0.002	2.680	23.73
860000	826091	29.52	0.017		177936.	0.502	0.002	2.705	23.71
862000	827946	29.51	0.017		178278.	0.492	0.002	2.730	23.69
864000	829801	29.50	0.017		178620.	0.482	0.002	2.755	23.67
866000	831656	29.49	0.017		178962.	0.472	0.002	2.780	23.65
868000	833511	29.48	0.017		179304.	0.462	0.002	2.805	23.63
870000	835366	29.47	0.017		179646.	0.452	0.002	2.830	23.61
872000	837221	29.46	0.017		180000.	0.442	0.002	2.855	23.59
874000	839076	29.45	0.017		180342.	0.432	0.002	2.880	23.57
876000	840931	29.44	0.017		180684.	0.422	0.002	2.905	23.55
878000	842786	29.43	0.017		181026.	0.412	0.002	2.930	23.53
880000	844641	29.42	0.017		181368.	0.402	0.002	2.955	23.51
882000	846496	29.41	0.017		181710.	0.392	0.002	2.980	23.49
884000	848351	29.40	0.017		182052.	0.382	0.002	3.005	23.47
886000	850206	29.39	0.017		182394.	0.372	0.002	3.030	23.45
888000	852061	29.38	0.017		182736.	0.362	0.002	3.055	23.43
890000	853916	29.37	0.017		183078.	0.352	0.002	3.080	23.41
892000	855771	29.36	0.017		183420.	0.342	0.002	3.105	23.39
894000	857626	29.35	0.017		183762.	0.332	0.002	3.130	23.37
896000	859481	29.34	0.017		184104.	0.322	0.002	3.155	23.35
898000	861336	29.33	0.017		184446.	0.312	0.002	3.180	23.33
900000	863191	29.32	0.017		184788.	0.302	0.002	3.205	23.31

TABLE X - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M				
Z, ft	H, ft												
920000	862758	29.57	1.101	-10	100577.	4.347	+13	3687.	1.021	+0	5.411	+3	23.40
925000	867752	29.55	1.097		101297.	4.222		3694.	9.955	-1	5.718		23.56
930000	871943	29.54	1.094		102018.	4.100		3700.	9.867		5.828		23.51
935000	876533	29.53	1.092		102740.	3.983		3707.	9.807		5.940		23.27
940000	881120	29.51	9.710	-11	103462.	3.870		3713.	9.155		6.056		23.23
945000	885705	29.50	9.712		104185.	3.760		3720.	8.911		6.174		23.18
950000	890289	29.48	9.725		104908.	3.654		3726.	8.676		6.294		23.14
955000	894870	29.47	8.847		105633.	3.551		3732.	8.445		6.420		23.09
960000	899449	29.46	8.579		106357.	3.452		3739.	8.222		6.547		23.05
965000	904025	29.44	8.320		107082.	3.355		3745.	8.007		6.678		23.00
970000	908600	29.43	8.070	-11	107808.	3.262	+13	3752.	7.798	-1	6.811	+3	22.94
975000	913173	29.42	7.828		108535.	3.172		3758.	7.595		6.968		22.92
980000	917745	29.40	7.594		109262.	3.085		3764.	7.398		7.088		22.87
985000	922312	29.39	7.368		109990.	3.000		3771.	7.207		7.232		22.81
990000	926878	29.38	7.150		110718.	2.918		3777.	7.022		7.379		22.78
995000	931442	29.36	6.938		111447.	2.839		3784.	6.843		7.528		22.74
1000000	936004	29.35	6.734		112174.	2.762		3790.	6.668		7.683		22.70
1005000	940564	29.34	6.537		112900.	2.687		3796.	6.500		7.840		22.65
1010000	945122	29.32	6.350		113628.	2.617		3801.	6.337		7.998		22.61
1015000	949678	29.31	6.169		114357.	2.548		3806.	6.179		8.160		22.56
1020000	954232	29.30	5.993	-11	115086.	2.481	+13	3812.	6.024	-1	8.325	+3	22.52
1025000	958784	29.28	5.823		115814.	2.417		3817.	5.877		8.495		22.48
1030000	963333	29.27	5.658		116542.	2.354		3822.	5.732		8.668		22.43
1035000	967881	29.26	5.498		117270.	2.293		3827.	5.591		8.845		22.39
1040000	972426	29.25	5.343		118000.	2.233		3832.	5.454		9.024		22.35
1045000	976970	29.23	5.193		118730.	2.174		3837.	5.321		9.212		22.30
1050000	981511	29.22	5.048		119463.	2.121		3843.	5.192		9.401		22.26
1055000	986050	29.20	4.907		120196.	2.067		3848.	5.066		9.595		22.21
1060000	990588	29.19	4.771		120931.	2.016		3853.	4.946		9.793		22.17
1065000	995123	29.18	4.639		121663.	1.963		3858.	4.825		9.996		22.13
1070000	999656	29.16	4.510	-11	122397.	1.913	+13	3863.	4.709	-1	10.204	+3	22.08
1075000	1004187	29.15	4.384		123132.	1.865		3868.	4.596		10.416		22.04
1080000	1008715	29.14	4.264		123867.	1.818		3873.	4.487		10.633		22.00
1085000	1013242	29.12	4.149		124602.	1.773		3879.	4.380		10.854		21.95
1090000	1017767	29.11	4.035		125337.	1.728		3884.	4.277		11.081		21.91
1095000	1022290	29.10	3.925		126072.	1.685		3889.	4.176		11.312		21.87
1100000	1026810	29.08	3.819		126807.	1.644		3894.	4.078		11.549		21.82
1105000	1031329	29.07	3.715		127542.	1.603		3899.	3.982		11.791		21.78
1110000	1035845	29.06	3.615		128277.	1.564		3904.	3.889		12.034		21.74
1115000	1040360	29.04	3.518		129012.	1.525		3909.	3.798		12.282		21.70
1120000	1044872	29.03	3.423	-11	129747.	1.488	+13	3914.	3.710	-1	12.535	+3	21.65
1125000	1049382	29.02	3.332		130482.	1.452		3919.	3.625		12.791		21.61
1130000	1053891	29.00	3.243		131217.	1.416		3924.	3.541		13.048		21.57
1135000	1058400	28.99	3.157		131952.	1.382		3929.	3.460		13.306		21.52
1140000	1062901	28.98	3.073		132687.	1.349		3934.	3.380		13.564		21.48
1145000	1067403	28.96	2.992		133422.	1.316		3939.	3.305		13.822		21.44
1150000	1071903	28.95	2.913		134157.	1.284		3944.	3.228		14.080		21.40
1155000	1076401	28.94	2.836		134892.	1.254		3949.	3.155		14.338		21.36
1160000	1080897	28.92	2.762		135627.	1.224		3954.	3.083		14.596		21.31
1165000	1085391	28.91	2.689		136362.	1.195		3959.	3.014		14.854		21.27
1170000	1089883	28.90	2.619	-11	137097.	1.166	+13	3964.	2.946	-1	15.112	+3	21.23
1175000	1094373	28.88	2.551		137832.	1.139		3969.	2.880		15.370		21.19
1180000	1098861	28.87	2.485		138567.	1.112		3974.	2.814		15.628		21.15
1185000	1103346	28.86	2.421		139302.	1.086		3979.	2.753		15.886		21.10
1190000	1107830	28.85	2.358		140037.	1.060		3984.	2.692		16.144		21.06
1195000	1112312	28.83	2.298		140772.	1.036		3989.	2.632		16.402		21.02
1200000	1116792	28.82	2.239		141507.	1.012		3994.	2.574		16.660		20.98
1205000	1121269	28.81	2.182		142242.	9.881	+12	3999.	2.518		16.918		20.94
1210000	1125745	28.79	2.126		142977.	9.652		4004.	2.462		17.176		20.90
1215000	1130218	28.78	2.072		143712.	9.430		4009.	2.408		17.434		20.86
1220000	1134690	28.77	2.019	-11	144447.	9.213	+12	4014.	2.356	-1	17.692	+3	20.82
1225000	1139159	28.75	1.968		145182.	9.001		4019.	2.305		17.950		20.78
1230000	1143627	28.74	1.919		145917.	8.796		4024.	2.255		18.208		20.74
1235000	1148092	28.73	1.871		146652.	8.595		4029.	2.206		18.466		20.69
1240000	1152556	28.71	1.824		147387.	8.400		4034.	2.159		18.724		20.65
1245000	1157017	28.70	1.778		148122.	8.209		4039.	2.112		18.982		20.61
1250000	1161474	28.69	1.734		148857.	8.024		4044.	2.067		19.240		20.57
1255000	1165934	28.68	1.691		149592.	7.843		4049.	2.023		19.498		20.53
1260000	1170389	28.66	1.649		150327.	7.667		4054.	1.980		19.756		20.50
1265000	1174842	28.65	1.608		151062.	7.495		4059.	1.938		20.014		20.46
1270000	1179294	28.64	1.568	-11	151797.	7.327	+12	4063.	1.897	-1	20.272	+3	20.42
1275000	1183743	28.62	1.530		152532.	7.164		4068.	1.857		20.530		20.38
1280000	1188190	28.61	1.492		153267.	7.005		4073.	1.818		20.788		20.34
1285000	1192635	28.60	1.456		154002.	6.850		4077.	1.779		21.046		20.30
1290000	1197079	28.58	1.420		154737.	6.699		4082.	1.742		21.304		20.26
1295000	1201520	28.57	1.386		155472.	6.551		4087.	1.706		21.562		20.22
1300000	1205959	28.56	1.352		156207.	6.407		4092.	1.670		21.820		20.18
1305000	1210394	28.55	1.319		156942.	6.267		4097.	1.636		22.078		20.15
1310000	1214832	28.53	1.287		157677.	6.130		4102.	1.602		22.336		20.11
1315000	1219265	28.52	1.256		158412.	5.996		4106.	1.569		22.594		20.07

TABLE X - Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , sec^{-2}	Specific weight γ , $\text{lb ft}^{-3} \text{sec}^{-2}$	Pressure scale height H_p , ft	Number density n , ft^{-3}	Particle speed V , ft sec^{-1}	Collision frequency ν , sec^{-1}	Mean free path L , ft	Molecular weight M				
Z , ft	H , ft												
1300000	1221698	28.51	1.226	-11	232419.	5.068	+12	4111.	1.517	-1	2.476	+4	20.03
1305000	1229125	28.49	1.197		233489.	5.739		4116.	1.505		2.735		19.99
1310000	1232552	28.46	1.168		234140.	5.415		4121.	1.474		2.795		19.96
1315000	1236971	28.47	1.141		234750.	5.495		4125.	1.446		2.856		19.92
1320000	1241401	28.44	1.114		235266.	5.380		4129.	1.415		2.917		19.88
1325000	1245822	28.44	1.086		235803.	5.267		4133.	1.387		2.980		19.85
1330000	1250241	28.45	1.055		236340.	5.157		4136.	1.359		3.044		19.81
1335000	1254650	28.42	1.030		236878.	5.049		4140.	1.332		3.109		19.77
1340000	1259074	28.40	1.015		237415.	4.944		4144.	1.305		3.175		19.74
1345000	1263487	28.39	9.912	-12	237954.	4.841		4148.	1.279		3.242		19.70
1350000	1267898	28.36	9.696	-12	238492.	4.741	+12	4152.	1.254	-1	3.311	+4	19.66
1355000	1272307	28.37	9.462		239032.	4.642		4155.	1.229		3.381		19.63
1360000	1276715	28.35	9.245		239571.	4.546		4159.	1.205		3.452		19.59
1365000	1281120	28.34	9.034		240111.	4.453		4163.	1.181		3.525		19.56
1370000	1285523	28.33	8.828		240651.	4.361		4167.	1.158		3.599		19.52
1375000	1289925	28.32	8.626		241192.	4.271		4170.	1.135		3.675		19.49
1380000	1294324	28.30	8.432		241733.	4.184		4174.	1.113		3.751		19.45
1385000	1298721	28.29	8.241		242275.	4.098		4178.	1.091		3.830		19.42
1390000	1303117	28.28	8.055		242817.	4.015		4181.	1.070		3.910		19.38
1395000	1307510	28.24	7.873		243359.	3.933		4185.	1.049		3.991		19.35
1400000	1311902	28.25	7.696	-12	243902.	3.853	+12	4189.	1.028	-1	4.074	+4	19.31
1405000	1316291	28.24	7.523		244445.	3.775		4193.	1.008		4.158		19.28
1410000	1320679	28.23	7.355		244989.	3.698		4196.	9.887	-2	4.244		19.25
1415000	1325064	28.21	7.190		245533.	3.623		4200.	9.694		4.332		19.21
1420000	1329448	28.20	7.030		246078.	3.550		4204.	9.509		4.421		19.18
1425000	1333829	28.19	6.874		246623.	3.479		4207.	9.326		4.512		19.15
1430000	1338209	28.18	6.721		247168.	3.409		4211.	9.146		4.604		19.12
1435000	1342586	28.14	6.572		247714.	3.341		4215.	8.971		4.698		19.08
1440000	1346962	28.15	6.427		248260.	3.274		4219.	8.799		4.794		19.05
1445000	1351336	28.14	6.285		248804.	3.208		4222.	8.631		4.892		19.02
1450000	1355708	28.13	6.146	-12	249353.	3.144	+12	4226.	8.466	-2	4.992	+4	18.99
1455000	1360077	28.11	6.011		249901.	3.082		4230.	8.305		5.093		18.95
1460000	1364445	28.10	5.879		250449.	3.021		4233.	8.147		5.194		18.92
1465000	1368811	28.09	5.751		250997.	2.961		4237.	7.992		5.301		18.89
1470000	1373175	28.07	5.625		251545.	2.902		4241.	7.841		5.408		18.86
1475000	1377537	28.06	5.503		252095.	2.845		4244.	7.693		5.517		18.83
1480000	1381897	28.05	5.385		252644.	2.789		4248.	7.547		5.626		18.80
1485000	1386255	28.04	5.264		253194.	2.734		4252.	7.405		5.741		18.77
1490000	1390611	28.02	5.152		253744.	2.680		4255.	7.266		5.857		18.74
1495000	1394965	28.01	5.041		254295.	2.627		4259.	7.130		5.976		18.71
1500000	1399317	28.00	4.932	-12	254846.	2.576	+12	4263.	6.994	-2	6.093	+4	18.68
1505000	1403668	27.99	4.826		255398.	2.526		4266.	6.865		6.214		18.65
1510000	1408016	27.97	4.722		255950.	2.476		4270.	6.737		6.338		18.62
1515000	1412362	27.96	4.621		256502.	2.428		4274.	6.612		6.464		18.59
1520000	1416707	27.95	4.522		257055.	2.381		4277.	6.489		6.592		18.56
1525000	1421049	27.94	4.425		257608.	2.335		4281.	6.368		6.723		18.53
1530000	1425390	27.92	4.331		258162.	2.290		4285.	6.250		6.855		18.51
1535000	1429728	27.91	4.239		258716.	2.245		4288.	6.134		6.990		18.48
1540000	1434065	27.90	4.149		259270.	2.202		4292.	6.021		7.126		18.45
1545000	1438400	27.89	4.061		259825.	2.160		4295.	5.910		7.266		18.42
1550000	1442733	27.87	3.975	-12	260381.	2.118	+12	4299.	5.801	-2	7.411	+4	18.40
1555000	1447063	27.86	3.892		260936.	2.077		4303.	5.695		7.556		18.37
1560000	1451392	27.85	3.810		261493.	2.037		4306.	5.590		7.703		18.34
1565000	1455719	27.84	3.730		262049.	1.999		4310.	5.488		7.854		18.31
1570000	1460044	27.82	3.652		262606.	1.960		4314.	5.387		8.007		18.29
1575000	1464367	27.81	3.575		263164.	1.923		4317.	5.289		8.162		18.26
1580000	1468689	27.80	3.501		263722.	1.886		4321.	5.193		8.321		18.24
1585000	1473008	27.79	3.428		264280.	1.850		4324.	5.098		8.482		18.21
1590000	1477325	27.78	3.356		264839.	1.815		4328.	5.006		8.646		18.18
1595000	1481641	27.76	3.287		265398.	1.781		4332.	4.915		8.813		18.16
1600000	1485954	27.75	3.219	-12	265957.	1.747	+12	4335.	4.824	-2	8.983	+4	18.13
1605000	1490264	27.74	3.152		266517.	1.714		4339.	4.739		9.156		18.11
1610000	1494575	27.73	3.087		267077.	1.682		4342.	4.653		9.332		18.08
1615000	1498883	27.71	3.024		267638.	1.650		4346.	4.570		9.511		18.06
1620000	1503189	27.70	2.961		268199.	1.619		4350.	4.487		9.693		18.04
1625000	1507493	27.69	2.901		268761.	1.589		4353.	4.407		9.878		18.01
1630000	1511795	27.68	2.841		269323.	1.559		4357.	4.328		1.007	+5	17.99
1635000	1516095	27.66	2.783		269884.	1.530		4360.	4.250		1.026		17.96
1640000	1520393	27.65	2.727		270449.	1.501		4364.	4.174		1.045		17.94
1645000	1524689	27.64	2.673		271011.	1.474		4368.	4.101		1.065		17.92
1650000	1528983	27.63	2.620	-12	271582.	1.448	+12	4371.	4.029	-2	1.086	+5	17.90
1655000	1533274	27.61	2.568		272142.	1.421		4375.	3.958		1.106		17.87
1660000	1537564	27.60	2.517		272703.	1.394		4378.	3.889		1.126		17.85
1665000	1541855	27.59	2.466		273264.	1.371		4382.	3.821		1.146		17.83
1670000	1546142	27.58	2.419		273826.	1.346		4386.	3.754		1.166		17.81
1675000	1550424	27.57	2.372		274387.	1.322		4390.	3.689		1.187		17.78
1680000	1554709	27.55	2.325		274949.	1.298		4393.	3.624		1.209		17.76
1685000	1558990	27.54	2.280		275512.	1.275		4397.	3.561		1.231		17.74
1690000	1563269	27.53	2.235		276077.	1.252		4401.	3.499		1.254		17.72
1695000	1567546	27.52	2.192		276640.	1.229		4405.	3.438		1.277		17.70

TABLE X - Continued
 GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft/sec ²	Specific weight γ , lb/ft ³ sec ²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft/sec ²	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
1700000	1571822	27.50	2.189 -12	275000.	1.207 +12	4392.	3.379 - 2	1.500 + 5	17.68
1705000	1576093	27.49	2.107	275814.	1.186	4396.	1.120	1.524	17.66
1710000	1580367	27.48	2.086	276227.	1.165	4397.	3.262	1.548	17.64
1715000	1584636	27.47	2.075	276641.	1.144	4397.	3.206	1.572	17.62
1720000	1588904	27.46	1.987	277056.	1.124	4401.	3.150	1.597	17.60
1725000	1593170	27.46	1.949	277470.	1.103	4404.	3.098	1.622	17.58
1730000	1597434	27.43	1.911	277885.	1.084	4406.	3.042	1.648	17.56
1735000	1601698	27.42	1.874	278300.	1.065	4408.	2.990	1.674	17.54
1740000	1605958	27.41	1.838	278715.	1.046	4410.	2.938	1.501	17.52
1745000	1610214	27.39	1.803	279131.	1.027	4413.	2.886	1.526	17.50
1750000	1614470	27.38	1.766 -12	279547.	1.009 +12	4415.	2.938 - 2	1.556 + 5	17.48
1755000	1618725	27.37	1.734	279963.	9.911 +11	4417.	2.789	1.586	17.46
1760000	1622977	27.36	1.701	280380.	9.735	4420.	2.741	1.612	17.45
1765000	1627228	27.35	1.668	280797.	9.563	4422.	2.694	1.641	17.45
1770000	1631477	27.33	1.637	281214.	9.395	4424.	2.648	1.671	17.41
1775000	1635724	27.32	1.605	281631.	9.229	4427.	2.603	1.701	17.39
1780000	1639969	27.31	1.575	282049.	9.066	4429.	2.558	1.731	17.38
1785000	1644212	27.30	1.545	282467.	8.907	4431.	2.515	1.762	17.36
1790000	1648453	27.29	1.516	282885.	8.750	4433.	2.472	1.794	17.34
1795000	1652693	27.27	1.487	283304.	8.596	4436.	2.429	1.826	17.32
1800000	1656931	27.26	1.459 -12	283723.	8.445 +11	4438.	2.388 - 2	1.858 + 5	17.31
1805000	1661166	27.25	1.431	284142.	8.297	4440.	2.347	1.892	17.29
1810000	1665400	27.24	1.404	284561.	8.152	4443.	2.307	1.925	17.28
1815000	1669632	27.23	1.378	284981.	8.009	4445.	2.268	1.960	17.26
1820000	1673862	27.21	1.352	285401.	7.869	4447.	2.230	1.995	17.24
1825000	1678090	27.20	1.326	285821.	7.732	4450.	2.192	2.030	17.23
1830000	1682317	27.19	1.301	286242.	7.597	4452.	2.155	2.066	17.21
1835000	1686541	27.18	1.277	286664.	7.466	4454.	2.118	2.103	17.20
1840000	1690764	27.17	1.253	287084.	7.336	4456.	2.082	2.140	17.18
1845000	1694985	27.15	1.230	287506.	7.207	4459.	2.047	2.178	17.17
1850000	1699203	27.14	1.207 -12	287927.	7.082 +11	4461.	2.015 - 2	2.216 + 5	17.15
1855000	1703421	27.13	1.184	288349.	6.959	4463.	1.977	2.256	17.14
1860000	1707636	27.12	1.162	288772.	6.838	4466.	1.945	2.295	17.12
1865000	1711849	27.11	1.141	289194.	6.719	4468.	1.913	2.336	17.11
1870000	1716061	27.09	1.119	289617.	6.603	4470.	1.881	2.377	17.09
1875000	1720270	27.08	1.099	290040.	6.489	4472.	1.849	2.419	17.08
1880000	1724478	27.07	1.078	290464.	6.377	4475.	1.818	2.461	17.06
1885000	1728684	27.06	1.058	290888.	6.267	4477.	1.788	2.505	17.05
1890000	1732888	27.05	1.039	291312.	6.159	4479.	1.758	2.548	17.04
1895000	1737090	27.03	1.020	291736.	6.053	4482.	1.728	2.593	17.02
1900000	1741290	27.02	1.001 -12	292161.	5.949 +11	4484.	1.699 - 2	2.639 + 5	17.01
1905000	1745489	27.01	9.825 -13	292586.	5.846	4486.	1.671	2.685	17.00
1910000	1749686	27.00	9.645	293011.	5.746	4488.	1.643	2.732	16.98
1915000	1753880	26.99	9.468	293436.	5.648	4491.	1.616	2.779	16.97
1920000	1758073	26.98	9.295	293862.	5.551	4493.	1.589	2.828	16.96
1925000	1762265	26.96	9.125	294288.	5.456	4495.	1.563	2.877	16.94
1930000	1766456	26.95	8.958	294714.	5.363	4497.	1.537	2.927	16.93
1935000	1770641	26.94	8.795	295141.	5.271	4500.	1.511	2.978	16.92
1940000	1774827	26.93	8.635	295568.	5.181	4502.	1.486	3.029	16.91
1945000	1779011	26.92	8.478	295995.	5.093	4504.	1.461	3.082	16.90
1950000	1783193	26.90	8.324 -13	296423.	5.006 +11	4506.	1.437 - 2	3.135 + 5	16.88
1955000	1787373	26.89	8.173	296851.	4.921	4509.	1.414	3.190	16.87
1960000	1791551	26.88	8.025	297279.	4.837	4511.	1.390	3.245	16.86
1965000	1795728	26.87	7.880	297707.	4.755	4513.	1.367	3.301	16.85
1970000	1799902	26.86	7.738	298134.	4.675	4515.	1.345	3.357	16.84
1975000	1804075	26.85	7.601	298562.	4.598	4517.	1.323	3.414	16.82
1980000	1808246	26.83	7.467	298985.	4.522	4518.	1.302	3.471	16.81
1985000	1812415	26.82	7.335	299407.	4.447	4520.	1.280	3.530	16.80
1990000	1816582	26.81	7.206	299829.	4.373	4521.	1.260	3.589	16.79
1995000	1820748	26.80	7.079	300255.	4.301	4523.	1.239	3.649	16.78
2000000	1824911	26.79	6.954 -13	300680.	4.230 +11	4526.	1.219 - 2	3.711 + 5	16.77
2005000	1829073	26.78	6.712	301105.	4.159	4527.	1.198	3.766	16.75
2010000	1833234	26.77	6.479	301531.	4.088	4530.	1.177	3.821	16.72
2015000	1837395	26.76	6.254	301956.	4.019	4533.	1.156	3.876	16.70
2020000	1841555	26.75	6.030	302382.	3.950	4536.	1.135	3.931	16.68
2025000	1845715	26.74	5.809	302807.	3.881	4539.	1.114	3.986	16.66
2030000	1849875	26.73	5.589	303233.	3.812	4542.	1.093	4.041	16.64
2035000	1854035	26.72	5.370	303658.	3.743	4545.	1.072	4.096	16.62
2040000	1858195	26.71	5.152	304084.	3.674	4548.	1.051	4.151	16.60
2045000	1862355	26.70	4.935	304509.	3.605	4551.	1.030	4.206	16.58
2050000	1866515	26.69	4.719	304935.	3.536	4554.	1.009	4.261	16.56
2055000	1870675	26.68	4.504	305360.	3.467	4557.	9.714 - 3	4.316	16.54
2060000	1874835	26.67	4.289	305786.	3.398	4560.	9.669	4.371	16.52
2065000	1878995	26.66	4.075	306211.	3.329	4563.	9.624	4.426	16.50
2070000	1883155	26.65	3.861	306637.	3.260	4566.	9.579	4.481	16.48
2075000	1887315	26.64	3.647	307062.	3.191	4569.	9.534	4.536	16.46
2080000	1891475	26.63	3.433	307488.	3.122	4572.	9.489	4.591	16.44
2085000	1895635	26.62	3.219	307913.	3.053	4575.	9.444	4.646	16.42
2090000	1899795	26.61	3.005	308339.	2.984	4578.	9.399	4.701	16.40
2095000	1903955	26.60	2.791	308764.	2.915	4581.	9.354	4.756	16.38
2100000	1908115	26.59	2.577	309190.	2.846	4584.	9.309	4.811	16.36
2105000	1912275	26.58	2.363	309615.	2.777	4587.	9.264	4.866	16.34
2110000	1916435	26.57	2.149	310041.	2.708	4590.	9.219	4.921	16.32
2115000	1920595	26.56	1.935	310466.	2.639	4593.	9.174	4.976	16.30
2120000	1924755	26.55	1.721	310892.	2.570	4596.	9.129	5.031	16.28
2125000	1928915	26.54	1.507	311317.	2.501	4599.	9.084	5.086	16.26
2130000	1933075	26.53	1.293	311743.	2.432	4602.	9.039	5.141	16.24
2135000	1937235	26.52	1.079	312168.	2.363	4605.	9.000	5.196	16.22
2140000	1941395	26.51	0.865	312594.	2.294	4608.	8.955	5.251	16.20
2145000	1945555	26.50	0.651	313019.	2.225	4611.	8.910	5.306	16.18
2150000	1949715	26.49	0.437	313445.	2.156	4614.	8.865	5.361	16.16
2155000	1953875	26.48	0.223	313870.	2.087	4617.	8.820	5.416	16.14
2160000	1958035	26.47	0.009	314296.	2.018	4620.	8.775	5.471	16.12
2165000	1962195	26.46	-0.205	314721.	1.949	4623.	8.730	5.526	16.10
2170000	1966355	26.45	-0.419	315147.	1.880	4626.	8.685	5.581	16.08
2175000	1970515	26.44	-0.633	315572.	1.811	4629.	8.640	5.636	16.06
2180000	1974675	26.43	-0.847	316000.	1.742	4632.	8.595	5.691	16.04
2185000	1978835	26.42	-1.061	316425.	1.673	4635.	8.550	5.746	16.02
2190000	1982995	26.41	-1.275	316851.	1.604	4638.	8.505	5.801	16.00

TABLE V Continued

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Accel due to gravity g , ft sec ⁻²	Specific weight w , lb ft ⁻³ sec ⁻²	Pressure scale height H_p , ft	Number density n , ft ⁻³	Particle speed V , ft sec ⁻¹	Collision frequency ν , sec ⁻¹	Mean free path L , ft	Molecular weight M
Z , ft	H , ft								
2200000	1984974	26.32	3.470 -13	313202.	2.200 +11	4502.	4.424 -3	7.131 +5	16.16
2210000	1996152	26.30	3.354	313888.	2.131	4505.	4.225	7.365	16.16
2220000	2006125	26.28	3.242	314515.	2.064	4508.	4.034	7.603	16.16
2230000	2016487	26.25	3.134	315202.	2.000	4511.	3.840	7.849	16.16
2240000	2026443	26.23	3.030	315871.	1.937	4513.	3.670	8.102	16.16
2250000	2036793	26.21	2.929	316540.	1.877	4516.	3.497	8.362	16.16
2260000	2046938	26.19	2.842	317210.	1.819	4519.	3.329	8.630	16.16
2270000	2047071	26.16	2.758	317881.	1.762	4522.	3.167	8.906	16.16
2280000	2053199	26.14	2.668	318552.	1.707	4525.	3.011	9.190	16.16
2290000	2063321	26.12	2.581	319225.	1.655	4528.	2.859	9.483	16.16
2300000	2071435	26.10	2.477 -13	319898.	1.604 +11	4511.	4.713 -3	9.784 +5	16.16
2310000	2079543	26.07	2.396	320572.	1.555	4514.	4.571	1.009 +6	16.16
2320000	2087643	26.05	2.317	321247.	1.507	4516.	4.436	1.041	16.16

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Table VI
SOUND SPEED, COEFFICIENT OF VISCOSITY, KINEMATIC VISCOSITY, AND
THERMAL CONDUCTIVITY

English Units

NOTE: A one- or two-digit number (preceded by a plus or minus sign) following the initial entry of each block indicates the power of ten by which that entry and each succeeding entry of that block should be multiplied. A change of power occurring within a block is indicated by a similar notation.

TABLE VI
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
-16500	-16487	1178.08	1.3056 - 5	1.08585 + 0	1.0806 - 4	6.87302 - 1	4.4736 - 6	1.09985 + 0
-16400	-16387	1177.71	1.3050	1.08534	1.0830	6.88789	4.4712	1.09926
-16300	-16287	1177.35	1.3044	1.08483	1.0853	6.90281	4.4688	1.09866
-16200	-16187	1176.99	1.3038	1.08433	1.0877	6.91777	4.4663	1.09807
-16100	-16088	1176.62	1.3032	1.08382	1.0900	6.93276	4.4639	1.09747
-16000	-15988	1176.26	1.3026 - 5	1.08331 + 0	1.0924 - 4	6.94780 - 1	4.4615 - 6	1.09688 + 0
-15900	-15888	1175.89	1.3020	1.08280	1.0948	6.96288	4.4591	1.09628
-15800	-15788	1175.53	1.3014	1.08229	1.0972	6.97800	4.4566	1.09568
-15700	-15688	1175.16	1.3007	1.08179	1.0995	6.99317	4.4542	1.09506
-15600	-15588	1174.80	1.3001	1.08128	1.1019	7.00837	4.4518	1.09449
-15500	-15488	1174.44	1.2995	1.08077	1.1043	7.02362	4.4494	1.09389
-15400	-15389	1174.07	1.2989	1.08026	1.1067	7.03891	4.4469	1.09330
-15300	-15289	1173.71	1.2983	1.07975	1.1091	7.05424	4.4445	1.09270
-15200	-15189	1173.34	1.2977	1.07924	1.1116	7.06962	4.4421	1.09210
-15100	-15089	1172.97	1.2971	1.07873	1.1140	7.08503	4.4396	1.09151
-15000	-14989	1172.61	1.2965 - 5	1.07823 + 0	1.1164 - 4	7.10049 - 1	4.4372 - 6	1.09091 + 0
-14900	-14889	1172.24	1.2959	1.07772	1.1189	7.11579	4.4348	1.09031
-14800	-14790	1171.88	1.2952	1.07721	1.1213	7.13154	4.4324	1.08971
-14700	-14690	1171.51	1.2946	1.07670	1.1237	7.14713	4.4299	1.08912
-14600	-14590	1171.15	1.2940	1.07619	1.1262	7.16276	4.4275	1.08852
-14500	-14490	1170.77	1.2934	1.07568	1.1287	7.17844	4.4251	1.08792
-14400	-14390	1170.41	1.2928	1.07517	1.1311	7.19416	4.4226	1.08732
-14300	-14290	1170.05	1.2922	1.07466	1.1336	7.20992	4.4202	1.08672
-14200	-14190	1169.68	1.2916	1.07415	1.1361	7.22573	4.4178	1.08613
-14100	-14090	1169.32	1.2909	1.07364	1.1386	7.24158	4.4153	1.08553
-14000	-13991	1168.95	1.2903 - 5	1.07312 + 0	1.1411 - 4	7.25747 - 1	4.4129 - 6	1.08493 + 0
-13900	-13891	1168.58	1.2897	1.07261	1.1436	7.27341	4.4105	1.08433
-13800	-13791	1168.22	1.2891	1.07210	1.1461	7.28940	4.4080	1.08373
-13700	-13691	1167.85	1.2885	1.07159	1.1486	7.30542	4.4056	1.08313
-13600	-13591	1167.48	1.2879	1.07108	1.1512	7.32150	4.4032	1.08254
-13500	-13491	1167.11	1.2873	1.07057	1.1537	7.33761	4.4007	1.08194
-13400	-13391	1166.75	1.2866	1.07006	1.1562	7.35378	4.3983	1.08134
-13300	-13292	1166.38	1.2860	1.06955	1.1588	7.36999	4.3958	1.08074
-13200	-13192	1166.01	1.2854	1.06903	1.1613	7.38624	4.3934	1.08014
-13100	-13092	1165.65	1.2848	1.06852	1.1639	7.40254	4.3910	1.07954
-13000	-12992	1165.28	1.2842 - 5	1.06801 + 0	1.1665 - 4	7.41889 - 1	4.3885 - 6	1.07894 + 0
-12900	-12892	1164.91	1.2836	1.06750	1.1691	7.43528	4.3861	1.07834
-12800	-12792	1164.54	1.2829	1.06698	1.1716	7.45171	4.3837	1.07774
-12700	-12692	1164.17	1.2823	1.06647	1.1742	7.46820	4.3812	1.07714
-12600	-12592	1163.81	1.2817	1.06596	1.1768	7.48473	4.3788	1.07654
-12500	-12493	1163.44	1.2811	1.06544	1.1794	7.50130	4.3763	1.07594
-12400	-12393	1163.07	1.2805	1.06493	1.1820	7.51793	4.3739	1.07534
-12300	-12293	1162.70	1.2799	1.06442	1.1847	7.53460	4.3714	1.07474
-12200	-12193	1162.33	1.2792	1.06390	1.1873	7.55131	4.3690	1.07414
-12100	-12093	1161.96	1.2786	1.06339	1.1899	7.56808	4.3666	1.07354
-12000	-11993	1161.59	1.2780 - 5	1.06288 + 0	1.1926 - 4	7.58489 - 1	4.3641 - 6	1.07294 + 0
-11900	-11893	1161.23	1.2774	1.06236	1.1952	7.60175	4.3617	1.07234
-11800	-11793	1160.86	1.2768	1.06185	1.1979	7.61865	4.3592	1.07174
-11700	-11693	1160.49	1.2762	1.06133	1.2006	7.63561	4.3568	1.07114
-11600	-11594	1160.12	1.2755	1.06082	1.2032	7.65261	4.3543	1.07053
-11500	-11494	1159.75	1.2749	1.06030	1.2059	7.66966	4.3519	1.06993
-11400	-11394	1159.38	1.2743	1.05979	1.2086	7.68676	4.3495	1.06933
-11300	-11294	1159.01	1.2737	1.05927	1.2113	7.70390	4.3470	1.06873
-11200	-11194	1158.64	1.2731	1.05876	1.2140	7.72110	4.3446	1.06813
-11100	-11094	1158.27	1.2724	1.05824	1.2167	7.73834	4.3421	1.06753
-11000	-10994	1157.90	1.2718 - 5	1.05773 + 0	1.2194 - 4	7.75564 - 1	4.3397 - 6	1.06693 + 0
-10900	-10894	1157.53	1.2712	1.05721	1.2222	7.77298	4.3372	1.06632
-10800	-10794	1157.16	1.2706	1.05670	1.2249	7.79037	4.3348	1.06572
-10700	-10695	1156.79	1.2700	1.05618	1.2276	7.80781	4.3323	1.06512
-10600	-10595	1156.42	1.2693	1.05566	1.2304	7.82530	4.3299	1.06452
-10500	-10495	1156.05	1.2687	1.05515	1.2331	7.84284	4.3274	1.06391
-10400	-10395	1155.68	1.2681	1.05463	1.2359	7.86043	4.3250	1.06331
-10300	-10295	1155.31	1.2675	1.05411	1.2387	7.87807	4.3225	1.06271
-10200	-10195	1154.94	1.2669	1.05360	1.2415	7.89577	4.3201	1.06211
-10100	-10095	1154.56	1.2662	1.05308	1.2442	7.91351	4.3176	1.06150
10000	-99	1154.19	1.2656 - 5	1.05256 + 0	1.2470 - 4	7.93130 - 1	4.3152 - 6	1.06090 + 0
-9900	-9899	1153.82	1.2650	1.05205	1.2498	7.94914	4.3127	1.06030
-9800	-9799	1153.45	1.2644	1.05153	1.2527	7.96704	4.3102	1.05969
-9700	-9699	1153.08	1.2637	1.05101	1.2555	7.98498	4.3078	1.05909
-9600	-9598	1152.71	1.2631	1.05049	1.2583	8.00298	4.3053	1.05849
-9500	-9498	1152.34	1.2625	1.04998	1.2612	8.02103	4.3029	1.05788
-9400	-9398	1151.98	1.2619	1.04946	1.2640	8.03913	4.3004	1.05728
-9300	-9298	1151.61	1.2613	1.04894	1.2669	8.05728	4.2980	1.05668
-9200	-9198	1151.22	1.2606	1.04842	1.2697	8.07548	4.2955	1.05607
-9100	-9098	1150.85	1.2600	1.04790	1.2726	8.09374	4.2931	1.05547

TABLE VI

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GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
-16500	-16513	1178.13	1.3057 - 5	1.08591 + 0	1.0803 - 4	6.87108 - 1	4.4739 - 6	1.09993 + 0
-16400	-16413	1177.76	1.3051	1.08540	1.0827	6.88597	4.4715	1.09934
-16300	-16313	1177.40	1.3045	1.08490	1.0850	6.90090	4.4691	1.09874
-16200	-16213	1177.03	1.3039	1.08439	1.0874	6.91588	4.4666	1.09814
-16100	-16112	1176.67	1.3033	1.08388	1.0897	6.93089	4.4642	1.09753
-16000	-16012	1176.30	1.3027 - 5	1.08337 + 0	1.0921 - 4	6.94595 - 1	4.4618 - 6	1.09695 + 0
-15900	-15912	1175.94	1.3020	1.08286	1.0945	6.96105	4.4594	1.09635
-15800	-15812	1175.57	1.3014	1.08236	1.0969	6.97619	4.4569	1.09575
-15700	-15712	1175.21	1.3008	1.08185	1.0993	6.99137	4.4545	1.09516
-15600	-15612	1174.84	1.3002	1.08134	1.1017	7.00659	4.4521	1.09456
-15500	-15512	1174.48	1.2996	1.08083	1.1041	7.02186	4.4496	1.09396
-15400	-15411	1174.11	1.2990	1.08032	1.1065	7.03717	4.4472	1.09336
-15300	-15311	1173.75	1.2984	1.07981	1.1089	7.05252	4.4448	1.09277
-15200	-15211	1173.38	1.2978	1.07930	1.1113	7.06791	4.4423	1.09217
-15100	-15111	1173.01	1.2971	1.07879	1.1137	7.08334	4.4399	1.09157
-15000	-15011	1172.65	1.2965 - 5	1.07828 + 0	1.1162 - 4	7.09882 - 1	4.4375 - 6	1.09097 + 0
-14900	-14911	1172.28	1.2959	1.07777	1.1186	7.11434	4.4350	1.09037
-14800	-14811	1171.92	1.2953	1.07726	1.1210	7.12990	4.4326	1.08978
-14700	-14710	1171.55	1.2947	1.07675	1.1235	7.14551	4.4302	1.08918
-14600	-14610	1171.18	1.2941	1.07624	1.1260	7.16116	4.4277	1.08858
-14500	-14510	1170.82	1.2935	1.07573	1.1284	7.17685	4.4253	1.08798
-14400	-14410	1170.45	1.2929	1.07522	1.1309	7.19259	4.4229	1.08738
-14300	-14310	1170.08	1.2922	1.07471	1.1334	7.20837	4.4204	1.08678
-14200	-14210	1169.72	1.2916	1.07420	1.1359	7.22419	4.4180	1.08618
-14100	-14110	1169.35	1.2910	1.07368	1.1384	7.24006	4.4156	1.08559
-14000	-14009	1168.98	1.2904 - 5	1.07317 + 0	1.1409 - 4	7.25597 - 1	4.4131 - 6	1.08499 + 0
-13900	-13909	1168.62	1.2898	1.07266	1.1434	7.27193	4.4107	1.08439
-13800	-13809	1168.25	1.2892	1.07215	1.1459	7.28793	4.4083	1.08379
-13700	-13709	1167.88	1.2885	1.07164	1.1484	7.30398	4.4058	1.08319
-13600	-13609	1167.51	1.2879	1.07113	1.1509	7.32007	4.4034	1.08259
-13500	-13509	1167.15	1.2873	1.07061	1.1535	7.33620	4.4009	1.08199
-13400	-13409	1166.78	1.2867	1.07010	1.1560	7.35238	4.3985	1.08139
-13300	-13308	1166.41	1.2861	1.06959	1.1586	7.36861	4.3961	1.08079
-13200	-13208	1166.04	1.2855	1.06908	1.1611	7.38488	4.3936	1.08019
-13100	-13108	1165.68	1.2848	1.06856	1.1637	7.40120	4.3912	1.07959
-13000	-13008	1165.31	1.2842 - 5	1.06805 + 0	1.1663 - 4	7.41756 - 1	4.3887 - 6	1.07899 + 0
-12900	-12908	1164.94	1.2836	1.06754	1.1688	7.43397	4.3863	1.07839
-12800	-12808	1164.57	1.2830	1.06702	1.1714	7.45042	4.3838	1.07779
-12700	-12708	1164.20	1.2824	1.06651	1.1740	7.46692	4.3814	1.07719
-12600	-12608	1163.83	1.2818	1.06600	1.1766	7.48347	4.3790	1.07659
-12500	-12507	1163.47	1.2811	1.06548	1.1792	7.50006	4.3765	1.07599
-12400	-12407	1163.10	1.2805	1.06497	1.1819	7.51670	4.3741	1.07538
-12300	-12307	1162.73	1.2799	1.06446	1.1845	7.53338	4.3716	1.07478
-12200	-12207	1162.36	1.2793	1.06394	1.1871	7.55012	4.3692	1.07418
-12100	-12107	1161.99	1.2787	1.06343	1.1897	7.56690	4.3667	1.07358
-12000	-12007	1161.62	1.2781 - 5	1.06291 + 0	1.1924 - 4	7.58372 - 1	4.3643 - 6	1.07298 + 0
-11900	-11907	1161.25	1.2774	1.06240	1.1950	7.60060	4.3618	1.07238
-11800	-11807	1160.88	1.2768	1.06188	1.1977	7.61752	4.3594	1.07178
-11700	-11707	1160.51	1.2762	1.06137	1.2004	7.63449	4.3569	1.07118
-11600	-11606	1160.14	1.2756	1.06085	1.2031	7.65151	4.3545	1.07058
-11500	-11506	1159.77	1.2750	1.06034	1.2057	7.66857	4.3521	1.06997
-11400	-11406	1159.40	1.2743	1.05982	1.2084	7.68569	4.3496	1.06937
-11300	-11306	1159.03	1.2737	1.05931	1.2111	7.70285	4.3472	1.06877
-11200	-11206	1158.66	1.2731	1.05879	1.2138	7.72006	4.3447	1.06816
-11100	-11106	1158.29	1.2725	1.05827	1.2165	7.73737	4.3423	1.06756
-11000	-11006	1157.92	1.2719 - 5	1.05776 + 0	1.2193 - 4	7.75463 - 1	4.3398 - 6	1.06696 + 0
-10900	-10906	1157.55	1.2712	1.05724	1.2220	7.77199	4.3374	1.06636
-10800	-10806	1157.18	1.2706	1.05673	1.2247	7.78940	4.3349	1.06575
-10700	-10705	1156.81	1.2700	1.05621	1.2275	7.80685	4.3325	1.06515
-10600	-10605	1156.44	1.2694	1.05569	1.2302	7.82436	4.3300	1.06455
-10500	-10505	1156.07	1.2688	1.05518	1.2330	7.84191	4.3275	1.06395
-10400	-10405	1155.70	1.2681	1.05466	1.2358	7.85957	4.3251	1.06336
-10300	-10305	1155.33	1.2675	1.05414	1.2385	7.87718	4.3226	1.06276
-10200	-10205	1154.95	1.2669	1.05362	1.2413	7.89488	4.3202	1.06216
-10100	-10105	1154.58	1.2663	1.05311	1.2441	7.91264	4.3177	1.06155
-10000	-10005	1154.21	1.2656 - 5	1.05259 + 0	1.2469 - 4	7.93044 - 1	4.3153 - 6	1.06095 + 0
-9900	-9905	1153.84	1.2650	1.05207	1.2497	7.94830	4.3128	1.06035
-9800	-9805	1153.47	1.2644	1.05155	1.2525	7.96621	4.3104	1.05972
-9700	-9705	1153.10	1.2638	1.05103	1.2554	7.98417	4.3079	1.05912
-9600	-9604	1152.72	1.2631	1.05052	1.2582	8.00218	4.3054	1.05851
-9500	-9504	1152.35	1.2625	1.05000	1.2610	8.02024	4.3030	1.05791
-9400	-9404	1151.98	1.2619	1.04948	1.2639	8.03836	4.3005	1.05730
-9300	-9304	1151.61	1.2613	1.04896	1.2667	8.05652	4.2981	1.05670
-9200	-9204	1151.23	1.2607	1.04844	1.2696	8.07474	4.2956	1.05610
-9100	-9104	1150.86	1.2600	1.04792	1.2725	8.09301	4.2932	1.05549

TABLE VI - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
-9000	-8996	1150.47	1.2596 - 5	1.06730 + 0	1.2755 - 6	0.11205 - 1	4.2006 - 6	1.05096 + 0
-8900	-8896	1150.10	1.2588	1.06684	1.2703	0.11041	4.2081	1.05026
-8800	-8796	1149.73	1.2581	1.06639	1.2652	0.10882	4.2157	1.05005
-8700	-8696	1149.36	1.2575	1.06583	1.2601	0.10729	4.2232	1.05005
-8600	-8596	1148.99	1.2569	1.06511	1.2551	0.10581	4.2308	1.05025
-8500	-8497	1148.61	1.2563	1.06470	1.2500	0.10439	4.2383	1.05103
-8400	-8397	1148.24	1.2556	1.06427	1.2449	0.10301	4.2459	1.05172
-8300	-8297	1147.86	1.2551	1.06375	1.2398	0.10169	4.2534	1.05203
-8200	-8197	1147.49	1.2546	1.06323	1.2348	0.10043	4.2609	1.05203
-8100	-8097	1147.12	1.2538	1.06271	1.2297	0.10022	4.2685	1.04962
-8000	-7997	1146.76	1.2531 - 5	1.06219 + 0	1.2247 - 6	0.10006 - 1	4.2760 - 6	1.04681 + 0
-7900	-7897	1146.37	1.2525	1.06167	1.2197	0.10000	4.2835	1.04631
-7800	-7797	1146.00	1.2519	1.06116	1.2147	0.10001	4.2911	1.04600
-7700	-7697	1145.63	1.2513	1.06062	1.2097	0.10002	4.2986	1.04600
-7600	-7597	1145.25	1.2506	1.06010	1.2046	0.10000	4.3061	1.04600
-7500	-7497	1144.87	1.2500	1.05958	1.2000	0.10000	4.3136	1.04600
-7400	-7397	1144.50	1.2494	1.05908	1.2000	0.10000	4.3211	1.04600
-7300	-7297	1144.13	1.2487	1.05854	1.2000	0.10000	4.3286	1.04600
-7200	-7199	1143.75	1.2481	1.05802	1.2000	0.10000	4.3361	1.04600
-7100	-7098	1143.38	1.2475	1.05749	1.2000	0.10000	4.3436	1.04600
-7000	-6999	1143.00	1.2469 - 5	1.05697 + 0	1.2000 - 6	0.10000 - 1	4.3511 - 6	1.04275 + 0
-6900	-6899	1142.63	1.2462	1.05645	1.1950	0.10000	4.3586	1.04215
-6800	-6799	1142.25	1.2456	1.05593	1.1900	0.10000	4.3661	1.04156
-6700	-6699	1141.88	1.2450	1.05540	1.1850	0.10000	4.3736	1.04095
-6600	-6599	1141.50	1.2443	1.05488	1.1800	0.10000	4.3811	1.04033
-6500	-6499	1141.13	1.2437	1.05436	1.1750	0.10000	4.3886	1.03972
-6400	-6399	1140.75	1.2431	1.05384	1.1700	0.10000	4.3961	1.03911
-6300	-6299	1140.37	1.2425	1.05331	1.1650	0.10000	4.4036	1.03851
-6200	-6199	1140.00	1.2418	1.05279	1.1600	0.10000	4.4111	1.03790
-6100	-6099	1139.62	1.2412	1.05227	1.1550	0.10000	4.4186	1.03729
-6000	-5999	1139.25	1.2406 - 5	1.05174 + 0	1.1500 - 6	0.10000 - 1	4.4261 - 6	1.03460 + 0
-5900	-5899	1138.87	1.2399	1.05122	1.1450	0.10000	4.4336	1.03400
-5800	-5799	1138.50	1.2393	1.05069	1.1400	0.10000	4.4411	1.03340
-5700	-5699	1138.12	1.2387	1.05017	1.1350	0.10000	4.4486	1.03280
-5600	-5599	1137.75	1.2381	1.04964	1.1300	0.10000	4.4561	1.03220
-5500	-5499	1137.37	1.2374	1.04912	1.1250	0.10000	4.4636	1.03160
-5400	-5399	1137.00	1.2368	1.04860	1.1200	0.10000	4.4711	1.03100
-5300	-5299	1136.62	1.2362	1.04807	1.1150	0.10000	4.4786	1.03040
-5200	-5199	1136.25	1.2355	1.04754	1.1100	0.10000	4.4861	1.02980
-5100	-5099	1135.88	1.2349	1.04702	1.1050	0.10000	4.4936	1.02920
-5000	-4999	1135.50	1.2343 - 5	1.04649 + 0	1.1000 - 6	0.10000 - 1	4.5011 - 6	1.02650 + 0
-4900	-4899	1135.13	1.2336	1.04597	1.0950	0.10000	4.5086	1.02590
-4800	-4799	1134.75	1.2330	1.04544	1.0900	0.10000	4.5161	1.02530
-4700	-4699	1134.38	1.2324	1.04492	1.0850	0.10000	4.5236	1.02470
-4600	-4599	1134.00	1.2317	1.04439	1.0800	0.10000	4.5311	1.02410
-4500	-4499	1133.63	1.2311	1.04386	1.0750	0.10000	4.5386	1.02350
-4400	-4399	1133.25	1.2305	1.04334	1.0700	0.10000	4.5461	1.02290
-4300	-4299	1132.88	1.2298	1.04281	1.0650	0.10000	4.5536	1.02230
-4200	-4199	1132.50	1.2292	1.04228	1.0600	0.10000	4.5611	1.02170
-4100	-4099	1132.13	1.2286	1.04176	1.0550	0.10000	4.5686	1.02110
-4000	-3999	1131.75	1.2279 - 5	1.04123 + 0	1.0500 - 6	0.10000 - 1	4.5761 - 6	1.01840 + 0
-3900	-3899	1131.38	1.2273	1.04070	1.0450	0.10000	4.5836	1.01780
-3800	-3799	1131.00	1.2267	1.04017	1.0400	0.10000	4.5911	1.01720
-3700	-3699	1130.63	1.2260	1.03964	1.0350	0.10000	4.5986	1.01660
-3600	-3599	1130.25	1.2254	1.03912	1.0300	0.10000	4.6061	1.01600
-3500	-3499	1129.88	1.2248	1.03859	1.0250	0.10000	4.6136	1.01540
-3400	-3399	1129.50	1.2241	1.03806	1.0200	0.10000	4.6211	1.01480
-3300	-3299	1129.13	1.2235	1.03753	1.0150	0.10000	4.6286	1.01420
-3200	-3199	1128.75	1.2229	1.03701	1.0100	0.10000	4.6361	1.01360
-3100	-3099	1128.38	1.2222	1.03648	1.0050	0.10000	4.6436	1.01300
-3000	-2999	1127.99	1.2216 - 5	1.03595 + 0	1.0000 - 6	0.10000 - 1	4.6511 - 6	1.01030 + 0
-2900	-2899	1127.63	1.2209	1.03542	0.9950	0.10000	4.6586	1.00970
-2800	-2799	1127.25	1.2203	1.03489	0.9900	0.10000	4.6661	1.00910
-2700	-2699	1126.88	1.2197	1.03436	0.9850	0.10000	4.6736	1.00850
-2600	-2599	1126.50	1.2190	1.03383	0.9800	0.10000	4.6811	1.00790
-2500	-2499	1126.13	1.2184	1.03330	0.9750	0.10000	4.6886	1.00730
-2400	-2399	1125.75	1.2178	1.03277	0.9700	0.10000	4.6961	1.00670
-2300	-2299	1125.38	1.2171	1.03224	0.9650	0.10000	4.7036	1.00610
-2200	-2199	1125.00	1.2165	1.03171	0.9600	0.10000	4.7111	1.00550
-2100	-2099	1124.63	1.2159	1.03118	0.9550	0.10000	4.7186	1.00490
-2000	-1999	1124.25	1.2152 - 5	1.03065 + 0	0.9500 - 6	0.10000 - 1	4.7261 - 6	1.00220 + 0
-1900	-1899	1123.88	1.2146	1.03012	0.9450	0.10000	4.7336	1.00160
-1800	-1799	1123.50	1.2139	1.02959	0.9400	0.10000	4.7411	1.00100
-1700	-1699	1123.13	1.2133	1.02906	0.9350	0.10000	4.7486	1.00040
-1600	-1599	1122.75	1.2127	1.02853	0.9300	0.10000	4.7561	1.00080
-1500	-1499	1122.38	1.2120	1.02799	0.9250	0.10000	4.7636	1.00020
-1400	-1399	1122.00	1.2114	1.02746	0.9200	0.10000	4.7711	1.00060
-1300	-1299	1121.63	1.2107	1.02693	0.9150	0.10000	4.7786	1.00000
-1200	-1199	1121.25	1.2101	1.02640	0.9100	0.10000	4.7861	1.00040
-1100	-1099	1120.88	1.2095	1.02587	0.9050	0.10000	4.7936	1.00080

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	c_s , ft/sec	μ , lb ft ² /sec	$\frac{\mu}{\rho_0}$	ν , ft ² /sec	$\frac{\nu}{\rho_0}$	k , BTU ft ² /sec ² ft ² /ft ²	$\frac{k}{k_0}$
-9800	-9800	1150.49	1.2594 - 5	1.04740 + 0	1.2754 - 4	0.11134 - 1	0.2067 - 0	1.05009 + 0
-9900	-9900	1150.12	1.2590	1.04680 + 0	1.2762 - 4	0.12071	0.2062	1.05020
-10000	-10000	1149.76	1.2582	1.04634	1.2811	0.14010	0.2058	1.05030
-10100	-10100	1149.37	1.2575	1.04584	1.2860	0.16002	0.2053	1.05037
-10200	-10200	1148.97	1.2569	1.04532	1.2907	0.18515	0.2049	1.05047
-10300	-10300	1148.57	1.2563	1.04480	1.2954	0.20537	0.2044	1.05054
-10400	-10400	1148.15	1.2557	1.04428	1.2999	0.22250	0.2039	1.05059
-10500	-10500	1147.72	1.2550	1.04374	1.2957	0.24108	0.2035	1.05065
-10600	-10600	1147.30	1.2544	1.04324	1.2907	0.25982	0.2030	1.05069
-10700	-10700	1146.87	1.2538	1.04272	1.2857	0.27869	0.2025	1.05074
-10800	-10800	1146.42	1.2532 - 5	1.04220 + 0	1.2806 - 4	0.29740 - 1	0.2021 - 0	1.05079 + 0
-10900	-10900	1145.98	1.2525	1.04168	1.2754	0.31634	0.2016	1.05083
-11000	-11000	1145.51	1.2519	1.04116	1.2706	0.33534	0.2011	1.05087
-11100	-11100	1145.03	1.2513	1.04064	1.2656	0.35438	0.2007	1.05092
-11200	-11200	1144.56	1.2506	1.04012	1.2606	0.37346	0.2002	1.05096
-11300	-11300	1144.08	1.2500	1.03959	1.2554	0.39258	0.2000	1.05100
-11400	-11400	1143.59	1.2494	1.03907	1.2502	0.41177	0.2000	1.05104
-11500	-11500	1143.10	1.2488	1.03855	1.2450	0.43101	0.2000	1.05108
-11600	-11600	1142.61	1.2481	1.03803	1.2398	0.45031	0.2000	1.05112
-11700	-11700	1142.12	1.2475	1.03751	1.2347	0.46966	0.2000	1.05116
-11800	-11800	1141.63	1.2469 - 5	1.03698 + 0	1.2297 - 4	0.48907 - 1	0.2000 - 0	1.05120 + 0
-11900	-11900	1141.13	1.2462	1.03646	1.2246	0.50854	0.2000	1.05124
-12000	-12000	1140.64	1.2456	1.03594	1.2194	0.52806	0.2000	1.05128
-12100	-12100	1140.15	1.2450	1.03542	1.2143	0.54764	0.2000	1.05132
-12200	-12200	1139.65	1.2444	1.03490	1.2091	0.56727	0.2000	1.05136
-12300	-12300	1139.15	1.2437	1.03437	1.2040	0.58697	0.2000	1.05140
-12400	-12400	1138.65	1.2431	1.03385	1.2000	0.60672	0.2000	1.05144
-12500	-12500	1138.15	1.2425	1.03332	1.1950	0.62653	0.2000	1.05148
-12600	-12600	1137.65	1.2418	1.03280	1.1900	0.64639	0.2000	1.05152
-12700	-12700	1137.15	1.2412	1.03227	1.1850	0.66632	0.2000	1.05156
-12800	-12800	1136.65	1.2406 - 5	1.03175 + 0	1.1800 - 4	0.68630 - 1	0.2000 - 0	1.05160 + 0
-12900	-12900	1136.15	1.2400	1.03123	1.1750	0.70634	0.2000	1.05164
-13000	-13000	1135.65	1.2393	1.03070	1.1700	0.72644	0.2000	1.05168
-13100	-13100	1135.15	1.2387	1.03018	1.1650	0.74660	0.2000	1.05172
-13200	-13200	1134.65	1.2381	1.02965	1.1600	0.76681	0.2000	1.05176
-13300	-13300	1134.15	1.2374	1.02913	1.1550	0.78709	0.2000	1.05180
-13400	-13400	1133.65	1.2368	1.02860	1.1500	0.80742	0.2000	1.05184
-13500	-13500	1133.15	1.2362	1.02808	1.1450	0.82782	0.2000	1.05188
-13600	-13600	1132.65	1.2355	1.02755	1.1400	0.84827	0.2000	1.05192
-13700	-13700	1132.15	1.2349	1.02703	1.1350	0.86879	0.2000	1.05196
-13800	-13800	1131.65	1.2343 - 5	1.02650 + 0	1.1300 - 4	0.88936 - 1	0.2000 - 0	1.05200 + 0
-13900	-13900	1131.15	1.2336	1.02597	1.1250	0.90997	0.2000	1.05204
-14000	-14000	1130.65	1.2330	1.02545	1.1200	0.93070	0.2000	1.05208
-14100	-14100	1130.15	1.2324	1.02492	1.1150	0.95145	0.2000	1.05212
-14200	-14200	1129.65	1.2317	1.02440	1.1100	0.97227	0.2000	1.05216
-14300	-14300	1129.15	1.2311	1.02387	1.1050	0.99315	0.2000	1.05220
-14400	-14400	1128.65	1.2305	1.02334	1.1000	1.01409	0.2000	1.05224
-14500	-14500	1128.15	1.2298	1.02282	1.0950	1.03510	0.2000	1.05228
-14600	-14600	1127.65	1.2292	1.02229	1.0900	1.05616	0.2000	1.05232
-14700	-14700	1127.15	1.2286	1.02176	1.0850	1.07729	0.2000	1.05236
-14800	-14800	1126.65	1.2279 - 5	1.02123 + 0	1.0800 - 4	0.99848 - 1	0.2000 - 0	1.05240 + 0
-14900	-14900	1126.15	1.2273	1.02071	1.0750	1.11973	0.2000	1.05244
-15000	-15000	1125.65	1.2267	1.02018	1.0700	1.14105	0.2000	1.05248
-15100	-15100	1125.15	1.2260	1.01965	1.0650	1.16245	0.2000	1.05252
-15200	-15200	1124.65	1.2254	1.01912	1.0600	1.18387	0.2000	1.05256
-15300	-15300	1124.15	1.2248	1.01859	1.0550	1.20530	0.2000	1.05260
-15400	-15400	1123.65	1.2241	1.01807	1.0500	1.22675	0.2000	1.05264
-15500	-15500	1123.15	1.2235	1.01754	1.0450	1.24822	0.2000	1.05268
-15600	-15600	1122.65	1.2229	1.01701	1.0400	1.26970	0.2000	1.05272
-15700	-15700	1122.15	1.2222	1.01648	1.0350	1.29120	0.2000	1.05276
-15800	-15800	1121.65	1.2216 - 5	1.01595 + 0	1.0300 - 4	0.31187 - 1	0.2000 - 0	1.05280 + 0
-15900	-15900	1121.15	1.2210	1.01542	1.0250	0.33374	0.2000	1.05284
-16000	-16000	1120.65	1.2203	1.01489	1.0200	0.35572	0.2000	1.05288
-16100	-16100	1120.15	1.2197	1.01436	1.0150	0.37774	0.2000	1.05292
-16200	-16200	1119.65	1.2190	1.01383	1.0100	0.39983	0.2000	1.05296
-16300	-16300	1119.15	1.2184	1.01330	1.0050	0.42198	0.2000	1.05300
-16400	-16400	1118.65	1.2178	1.01277	1.0000	0.44419	0.2000	1.05304
-16500	-16500	1118.15	1.2171	1.01224	0.9950	0.46647	0.2000	1.05308
-16600	-16600	1117.65	1.2165	1.01171	0.9900	0.48882	0.2000	1.05312
-16700	-16700	1117.15	1.2159	1.01118	0.9850	0.51124	0.2000	1.05316
-16800	-16800	1116.65	1.2152 - 5	1.01065 + 0	0.9800 - 4	0.53375 - 1	0.2000 - 0	1.05320 + 0
-16900	-16900	1116.15	1.2146	1.01012	0.9750	0.55631	0.2000	1.05324
-17000	-17000	1115.65	1.2139	1.00959	0.9700	0.57893	0.2000	1.05328
-17100	-17100	1115.15	1.2133	1.00906	0.9650	0.60162	0.2000	1.05332
-17200	-17200	1114.65	1.2127	1.00853	0.9600	0.62438	0.2000	1.05336
-17300	-17300	1114.15	1.2120	1.00799	0.9550	0.64721	0.2000	1.05340
-17400	-17400	1113.65	1.2114	1.00746	0.9500	0.67010	0.2000	1.05344
-17500	-17500	1113.15	1.2107	1.00693	0.9450	0.69307	0.2000	1.05348
-17600	-17600	1112.65	1.2101	1.00640	0.9400	0.71610	0.2000	1.05352
-17700	-17700	1112.15	1.2095	1.00587	0.9350	0.73920	0.2000	1.05356

TABLE VI—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
-1000	-1000	1120.28	1.2088 - 5	1.00553 + 0	1.5553 - 4	9.78439 - 1	4.0924 - 8	1.00414 + 0
-900	-900	1119.30	1.2082	1.00480	1.5589	9.78761	4.0899	1.00513
-800	-800	1118.32	1.2075	1.00427	1.5626	9.81094	4.0874	1.00642
-700	-700	1117.33	1.2069	1.00374	1.5663	9.83432	4.0849	1.00770
-600	-600	1116.35	1.2061	1.00320	1.5699	9.85777	4.0824	1.00899
-500	-500	1115.37	1.2054	1.00267	1.5536	9.88119	4.0799	1.01028
-400	-400	1114.38	1.2050	1.00214	1.5574	9.90469	4.0775	1.01157
-300	-300	1113.40	1.2043	1.00160	1.5611	9.92816	4.0750	1.01286
-200	-200	1112.42	1.2037	1.00107	1.5648	9.95160	4.0725	1.01415
-100	-100	1111.43	1.2031	1.00053	1.5685	9.97501	4.0700	1.01544
0	0	1110.45	1.2024 - 5	1.00000 + 0	1.5723 - 4	1.00000 + 0	4.0674 - 8	1.00000 + 0
100	100	1111.07	1.2018	9.99444 - 1	1.5741	1.00239 + 0	4.0649	9.99385 - 1
200	200	1111.68	1.2011	9.98931	1.5798	1.00480	4.0624	9.98770
300	300	1112.29	1.2005	9.98417	1.5854	1.00721	4.0599	9.98155
400	400	1112.91	1.1998	9.97902	1.5911	1.00963	4.0574	9.97539
500	500	1113.53	1.1992	9.97387	1.5968	1.01205	4.0549	9.96924
600	600	1114.14	1.1985	9.96872	1.5951	1.01446	4.0524	9.96308
700	700	1114.76	1.1979	9.96356	1.5989	1.01687	4.0499	9.95693
800	800	1115.38	1.1973	9.95841	1.6026	1.01928	4.0474	9.95077
900	900	1115.99	1.1966	9.95325	1.6064	1.02169	4.0449	9.94461
1000	1000	1116.61	1.1960 - 5	9.94809 - 1	1.6105 - 4	1.02429 + 0	4.0424 - 8	9.93845 - 1
1100	1100	1117.22	1.1953	9.94294	1.6146	1.02678	4.0399	9.93229
1200	1200	1117.83	1.1947	9.93777	1.6183	1.02923	4.0374	9.92612
1300	1300	1118.45	1.1940	9.93260	1.6222	1.03172	4.0349	9.91996
1400	1400	1119.06	1.1934	9.92743	1.6261	1.03421	4.0324	9.91379
1500	1500	1119.68	1.1927	9.92226	1.6300	1.03671	4.0299	9.90762
1600	1600	1120.29	1.1921	9.91709	1.6340	1.03922	4.0274	9.90146
1700	1700	1120.91	1.1915	9.91192	1.6379	1.04173	4.0249	9.89529
1800	1800	1121.52	1.1908	9.90675	1.6419	1.04424	4.0224	9.88912
1900	1900	1122.13	1.1902	9.90158	1.6459	1.04679	4.0198	9.88294
2000	2000	1122.75	1.1895 - 5	9.89642 - 1	1.6499 - 4	1.04933 + 0	4.0173 - 8	9.87677 - 1
2100	2100	1123.36	1.1889	9.89125	1.6539	1.05188	4.0148	9.87060
2200	2200	1123.97	1.1882	9.88608	1.6579	1.05443	4.0123	9.86442
2300	2300	1124.59	1.1876	9.88091	1.6619	1.05699	4.0098	9.85825
2400	2400	1125.20	1.1869	9.87574	1.6660	1.05956	4.0073	9.85207
2500	2500	1125.81	1.1863	9.87057	1.6700	1.06214	4.0048	9.84589
2600	2600	1126.43	1.1856	9.86540	1.6741	1.06471	4.0023	9.83971
2700	2700	1127.04	1.1850	9.86023	1.6782	1.06728	4.0000	9.83353
2800	2800	1127.66	1.1843	9.85506	1.6822	1.06986	3.9975	9.82735
2900	2900	1128.27	1.1837	9.84989	1.6864	1.07244	3.9950	9.82116
3000	3000	1128.88	1.1830 - 5	9.84472 - 1	1.6905 - 4	1.07515 + 0	3.9922 - 8	9.81498 - 1
3100	3100	1129.49	1.1824	9.83955	1.6946	1.07778	3.9897	9.80879
3200	3200	1130.10	1.1817	9.83438	1.6987	1.08042	3.9872	9.80260
3300	3300	1130.71	1.1811	9.82921	1.7029	1.08306	3.9846	9.79641
3400	3400	1131.32	1.1804	9.82404	1.7071	1.08571	3.9821	9.79022
3500	3500	1131.93	1.1798	9.81887	1.7112	1.08837	3.9796	9.78403
3600	3600	1132.54	1.1791	9.81370	1.7154	1.09104	3.9771	9.77784
3700	3700	1133.15	1.1785	9.80853	1.7197	1.09371	3.9746	9.77165
3800	3800	1133.76	1.1778	9.80336	1.7239	1.09640	3.9720	9.76546
3900	3900	1134.37	1.1772	9.79819	1.7281	1.09909	3.9695	9.75926
4000	4000	1134.98	1.1765 - 5	9.79302 - 1	1.7324 - 4	1.10179 + 0	3.9670 - 8	9.75306 - 1
4100	4100	1135.59	1.1759	9.78785	1.7366	1.10450	3.9645	9.74686
4200	4200	1136.20	1.1752	9.78268	1.7409	1.10722	3.9620	9.74066
4300	4300	1136.81	1.1746	9.77751	1.7452	1.10995	3.9594	9.73446
4400	4400	1137.42	1.1739	9.77234	1.7495	1.11268	3.9569	9.72826
4500	4500	1138.03	1.1733	9.76717	1.7538	1.11543	3.9544	9.72206
4600	4600	1138.64	1.1726	9.76200	1.7581	1.11818	3.9519	9.71586
4700	4700	1139.25	1.1720	9.75683	1.7625	1.12094	3.9493	9.70966
4800	4800	1139.86	1.1713	9.75166	1.7668	1.12371	3.9468	9.70346
4900	4900	1140.47	1.1707	9.74649	1.7712	1.12647	3.9443	9.69723
5000	5000	1141.08	1.1700 - 5	9.74132 - 1	1.7756 - 4	1.12928 + 0	3.9418 - 8	9.69102 - 1
5100	5100	1141.69	1.1694	9.73615	1.7800	1.13207	3.9392	9.68481
5200	5200	1142.30	1.1687	9.73098	1.7844	1.13488	3.9367	9.67860
5300	5300	1142.91	1.1681	9.72581	1.7889	1.13769	3.9342	9.67239
5400	5400	1143.52	1.1674	9.72064	1.7933	1.14051	3.9317	9.66617
5500	5500	1144.13	1.1668	9.71547	1.7977	1.14334	3.9291	9.65996
5600	5600	1144.74	1.1661	9.71030	1.8022	1.14618	3.9266	9.65374
5700	5700	1145.35	1.1655	9.70513	1.8066	1.14903	3.9241	9.64753
5800	5800	1145.96	1.1648	9.69996	1.8111	1.15189	3.9216	9.64131
5900	5900	1146.57	1.1641	9.69479	1.8156	1.15476	3.9190	9.63509
6000	6000	1147.18	1.1635 - 5	9.68962 - 1	1.8202 - 4	1.15764 + 0	3.9165 - 8	9.62887 - 1
6100	6100	1147.79	1.1628	9.68445	1.8247	1.16052	3.9140	9.62266
6200	6200	1148.40	1.1622	9.67928	1.8292	1.16342	3.9114	9.61646
6300	6300	1149.01	1.1615	9.67411	1.8338	1.16632	3.9089	9.61019
6400	6400	1149.62	1.1609	9.66894	1.8384	1.16923	3.9064	9.60397
6500	6500	1150.23	1.1602	9.66377	1.8430	1.17216	3.9038	9.59774
6600	6600	1150.84	1.1595	9.65860	1.8476	1.17509	3.9013	9.59151
6700	6700	1151.45	1.1589	9.65343	1.8522	1.17803	3.8988	9.58528
6800	6800	1152.06	1.1582	9.64826	1.8569	1.18098	3.8962	9.57905
6900	6900	1152.67	1.1576	9.64309	1.8615	1.18394	3.8937	9.57282

TABLE V.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
-1000	-1000	1120.28	1.2088 - 5	1.00533 + 0	1.5353 - 4	9.76658 - 1	0.0924 - 4	1.00614 + 0
-900	-900	1119.40	1.2082	1.00480	1.5349	9.76762	0.0920	1.00553
-800	-800	1118.52	1.2075	1.00427	1.5344	9.76865	0.0916	1.00492
-700	-700	1117.13	1.2069	1.00374	1.5340	9.76968	0.0912	1.00430
-600	-600	1116.75	1.2063	1.00320	1.5336	9.77071	0.0908	1.00369
-500	-500	1116.37	1.2056	1.00267	1.5332	9.77174	0.0904	1.00307
-400	-400	1115.98	1.2050	1.00214	1.5328	9.77277	0.0900	1.00246
-300	-300	1115.40	1.2043	1.00160	1.5324	9.77380	0.0896	1.00184
-200	-200	1114.22	1.2037	1.00107	1.5320	9.77483	0.0892	1.00123
-100	-100	1113.83	1.2031	1.00053	1.5315	9.77586	0.0888	1.00062
0	0	1113.45	1.2024 - 5	1.00000 + 0	1.5723 - 4	1.00000 + 0	0.0874 - 4	1.00000 + 0
100	100	1113.07	1.2018	0.99944 - 1	1.5761	1.00239 + 0	0.0869	0.99985 - 1
200	200	1112.68	1.2011	0.99891	1.5798	1.00480	0.0864	0.99970
300	300	1112.30	1.2005	0.99837	1.5836	1.00721	0.0859	0.99955
400	400	1111.91	1.1998	0.99782	1.5874	1.00963	0.0854	0.99940
500	500	1111.53	1.1992	0.99727	1.5912	1.01205	0.0849	0.99926
600	600	1111.14	1.1986	0.99672	1.5951	1.01448	0.0844	0.99911
700	700	1110.76	1.1979	0.99616	1.5989	1.01692	0.0839	0.99897
800	800	1110.38	1.1973	0.99561	1.6028	1.01937	0.0834	0.99882
900	900	1110.00	1.1966	0.99505	1.6066	1.02182	0.0829	0.99868
1000	1000	1112.61	1.1960 - 5	0.99449 - 1	1.6105 - 4	1.02429 + 0	0.0824 - 4	0.99853 - 1
1100	1100	1112.22	1.1953	0.99393	1.6143	1.02675	0.0819	0.99839
1200	1200	1111.83	1.1947	0.99337	1.6181	1.02923	0.0814	0.99825
1300	1300	1111.45	1.1940	0.99281	1.6222	1.03172	0.0809	0.99810
1400	1400	1111.06	1.1934	0.99225	1.6261	1.03421	0.0804	0.99796
1500	1500	1110.68	1.1927	0.99167	1.6300	1.03671	0.0799	0.99782
1600	1600	1110.29	1.1921	0.99110	1.6340	1.03922	0.0794	0.99768
1700	1700	1109.91	1.1915	0.99053	1.6379	1.04173	0.0789	0.99754
1800	1800	1109.52	1.1908	0.99005	1.6419	1.04425	0.0784	0.99740
1900	1900	1109.13	1.1902	0.98949	1.6459	1.04679	0.0779	0.99726
2000	2000	1108.75	1.1895 - 5	0.98893 - 1	1.6499 - 4	1.04932 + 0	0.0774 - 4	0.98767 - 1
2100	2100	1108.36	1.1889	0.98837	1.6539	1.05187	0.0769	0.98753
2200	2200	1107.97	1.1882	0.98780	1.6579	1.05442	0.0764	0.98739
2300	2300	1107.59	1.1876	0.98724	1.6619	1.05697	0.0759	0.98725
2400	2400	1107.20	1.1869	0.98667	1.6659	1.05954	0.0754	0.98711
2500	2500	1106.81	1.1863	0.98610	1.6700	1.06213	0.0749	0.98697
2600	2600	1106.43	1.1856	0.98552	1.6741	1.06472	0.0744	0.98683
2700	2700	1106.04	1.1850	0.98513	1.6781	1.06731	0.0739	0.98669
2800	2800	1105.65	1.1843	0.98455	1.6822	1.06991	0.0734	0.98655
2900	2900	1105.26	1.1837	0.98400	1.6863	1.07252	0.0729	0.98641
3000	3000	1104.88	1.1830 - 5	0.98344 - 1	1.6905 - 4	1.07514 + 0	0.0724 - 4	0.98627 - 1
3100	3100	1104.49	1.1824	0.98288	1.6946	1.07777	0.0719	0.98613
3200	3200	1104.10	1.1817	0.98231	1.6987	1.08040	0.0714	0.98599
3300	3300	1103.71	1.1811	0.98175	1.7028	1.08304	0.0709	0.98585
3400	3400	1103.32	1.1804	0.98118	1.7070	1.08570	0.0704	0.98571
3500	3500	1102.94	1.1798	0.98062	1.7112	1.08835	0.0699	0.98557
3600	3600	1102.55	1.1791	0.98005	1.7154	1.09102	0.0694	0.98543
3700	3700	1102.16	1.1785	0.97949	1.7196	1.09370	0.0689	0.98529
3800	3800	1101.77	1.1778	0.97892	1.7238	1.09638	0.0684	0.98515
3900	3900	1101.38	1.1772	0.97836	1.7281	1.09907	0.0679	0.98501
4000	4000	1100.99	1.1765 - 5	0.97780 - 1	1.7323 - 4	1.10177 + 0	0.0674 - 4	0.98487 - 1
4100	4100	1100.60	1.1759	0.97724	1.7366	1.10448	0.0669	0.98473
4200	4200	1100.21	1.1752	0.97667	1.7409	1.10720	0.0664	0.98459
4300	4300	1099.83	1.1746	0.97611	1.7451	1.10992	0.0659	0.98445
4400	4400	1099.44	1.1739	0.97554	1.7494	1.11264	0.0654	0.98431
4500	4500	1099.05	1.1733	0.97498	1.7537	1.11536	0.0649	0.98417
4600	4600	1098.66	1.1726	0.97441	1.7580	1.11815	0.0644	0.98403
4700	4700	1098.27	1.1720	0.97385	1.7624	1.12091	0.0639	0.98389
4800	4800	1097.88	1.1713	0.97328	1.7668	1.12368	0.0634	0.98375
4900	4900	1097.49	1.1707	0.97272	1.7711	1.12646	0.0629	0.98361
5000	5000	1097.10	1.1700 - 5	0.97216 - 1	1.7755 - 4	1.12924 + 0	0.0624 - 4	0.98347 - 1
5100	5100	1096.71	1.1694	0.97160	1.7799	1.13204	0.0619	0.98333
5200	5200	1096.32	1.1687	0.97103	1.7843	1.13484	0.0614	0.98319
5300	5300	1095.92	1.1681	0.97047	1.7887	1.13765	0.0609	0.98305
5400	5400	1095.53	1.1674	0.96990	1.7932	1.14047	0.0604	0.98291
5500	5500	1095.14	1.1668	0.96934	1.7976	1.14330	0.0599	0.98277
5600	5600	1094.75	1.1661	0.96877	1.8021	1.14614	0.0594	0.98263
5700	5700	1094.36	1.1655	0.96821	1.8066	1.14899	0.0589	0.98249
5800	5800	1093.97	1.1648	0.96764	1.8111	1.15185	0.0584	0.98235
5900	5900	1093.58	1.1641	0.96708	1.8156	1.15471	0.0579	0.98221
6000	6000	1093.19	1.1635 - 5	0.96652 - 1	1.8201 - 4	1.15759 + 0	0.0574 - 4	0.98207 - 1
6100	6100	1092.79	1.1628	0.96596	1.8246	1.16047	0.0569	0.98193
6200	6200	1092.40	1.1622	0.96540	1.8292	1.16336	0.0564	0.98179
6300	6300	1092.01	1.1615	0.96483	1.8337	1.16627	0.0559	0.98165
6400	6400	1091.62	1.1609	0.96427	1.8383	1.16918	0.0554	0.98151
6500	6500	1091.23	1.1602	0.96370	1.8429	1.17210	0.0549	0.98137
6600	6600	1090.83	1.1596	0.96314	1.8475	1.17503	0.0544	0.98123
6700	6700	1090.44	1.1589	0.96258	1.8521	1.17797	0.0539	0.98109
6800	6800	1090.05	1.1582	0.96201	1.8568	1.18091	0.0534	0.98095
6900	6900	1089.65	1.1576	0.96145	1.8614	1.18387	0.0529	0.98081

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
M, ft	Z, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
7000	7000	1089.25	1.1589 - 5	0.62163 - 1	1.8662 - 4	1.18691 + 0	3.8912 - 6	0.56659 - 1
7100	7100	1088.86	1.1583	0.61616	1.8709	1.18989	3.8906	0.56655
7200	7200	1088.46	1.1576	0.61068	1.8756	1.19288	3.8891	0.56651
7300	7300	1088.07	1.1569	0.60521	1.8803	1.19587	3.8876	0.56647
7400	7400	1087.68	1.1563	0.59973	1.8850	1.19886	3.8861	0.56643
7500	7500	1087.28	1.1556	0.59426	1.8898	1.20185	3.8846	0.56639
7600	7600	1086.89	1.1550	0.58878	1.8945	1.20484	3.8831	0.56635
7700	7700	1086.49	1.1543	0.58331	1.8993	1.20783	3.8816	0.56631
7800	7800	1086.10	1.1536	0.57783	1.9041	1.21081	3.8801	0.56627
7900	7900	1085.71	1.1530	0.57235	1.9089	1.21380	3.8786	0.56623
8000	8000	1085.31	1.1523	0.56688	1.9137	1.21678	3.8771	0.56619
8100	8100	1084.92	1.1517	0.56140	1.9185	1.21977	3.8756	0.56615
8200	8200	1084.52	1.1510	0.55593	1.9233	1.22275	3.8741	0.56611
8300	8300	1084.13	1.1503	0.55046	1.9281	1.22574	3.8726	0.56607
8400	8400	1083.73	1.1497	0.54498	1.9329	1.22872	3.8711	0.56603
8500	8500	1083.33	1.1490	0.53951	1.9377	1.23171	3.8696	0.56599
8600	8600	1082.94	1.1484	0.53403	1.9425	1.23469	3.8681	0.56595
8700	8700	1082.54	1.1477	0.52856	1.9473	1.23768	3.8666	0.56591
8800	8800	1082.15	1.1470	0.52308	1.9521	1.24066	3.8651	0.56587
8900	8900	1081.75	1.1464	0.51761	1.9569	1.24365	3.8636	0.56583
9000	9000	1081.36	1.1457	0.51213	1.9617	1.24663	3.8621	0.56579
9100	9100	1080.96	1.1451	0.50666	1.9665	1.24962	3.8606	0.56575
9200	9200	1080.56	1.1444	0.50118	1.9713	1.25260	3.8591	0.56571
9300	9300	1080.17	1.1438	0.49571	1.9761	1.25559	3.8576	0.56567
9400	9400	1079.77	1.1431	0.49023	1.9809	1.25857	3.8561	0.56563
9500	9500	1079.37	1.1425	0.48476	1.9857	1.26156	3.8546	0.56559
9600	9600	1078.97	1.1418	0.47928	1.9905	1.26454	3.8531	0.56555
9700	9700	1078.58	1.1412	0.47381	1.9953	1.26753	3.8516	0.56551
9800	9800	1078.18	1.1405	0.46833	2.0001	1.27051	3.8501	0.56547
9900	9900	1077.78	1.1399	0.46286	2.0049	1.27350	3.8486	0.56543
10000	10000	1077.39	1.1392	0.45738	2.0097	1.27648	3.8471	0.56539
10100	10100	1076.99	1.1386	0.45191	2.0145	1.27947	3.8456	0.56535
10200	10200	1076.59	1.1379	0.44643	2.0193	1.28245	3.8441	0.56531
10300	10300	1076.19	1.1373	0.44096	2.0241	1.28544	3.8426	0.56527
10400	10400	1075.79	1.1366	0.43548	2.0289	1.28842	3.8411	0.56523
10500	10500	1075.39	1.1360	0.42999	2.0337	1.29141	3.8396	0.56519
10600	10600	1074.99	1.1353	0.42451	2.0385	1.29439	3.8381	0.56515
10700	10700	1074.59	1.1347	0.41903	2.0433	1.29738	3.8366	0.56511
10800	10800	1074.19	1.1340	0.41355	2.0481	1.30036	3.8351	0.56507
10900	10900	1073.79	1.1334	0.40807	2.0529	1.30335	3.8336	0.56503
11000	11000	1073.39	1.1327	0.40259	2.0577	1.30633	3.8321	0.56499
11100	11100	1072.99	1.1321	0.39711	2.0625	1.30932	3.8306	0.56495
11200	11200	1072.59	1.1314	0.39163	2.0673	1.31230	3.8291	0.56491
11300	11300	1072.19	1.1308	0.38615	2.0721	1.31529	3.8276	0.56487
11400	11400	1071.79	1.1301	0.38067	2.0769	1.31827	3.8261	0.56483
11500	11500	1071.39	1.1295	0.37519	2.0817	1.32126	3.8246	0.56479
11600	11600	1070.99	1.1288	0.36971	2.0865	1.32424	3.8231	0.56475
11700	11700	1070.59	1.1282	0.36423	2.0913	1.32723	3.8216	0.56471
11800	11800	1070.19	1.1275	0.35875	2.0961	1.33021	3.8201	0.56467
11900	11900	1069.79	1.1269	0.35327	2.1009	1.33320	3.8186	0.56463
12000	12000	1069.39	1.1262	0.34779	2.1057	1.33618	3.8171	0.56459
12100	12100	1068.99	1.1256	0.34231	2.1105	1.33917	3.8156	0.56455
12200	12200	1068.59	1.1249	0.33683	2.1153	1.34215	3.8141	0.56451
12300	12300	1068.19	1.1243	0.33135	2.1201	1.34514	3.8126	0.56447
12400	12400	1067.79	1.1236	0.32587	2.1249	1.34812	3.8111	0.56443
12500	12500	1067.39	1.1230	0.32039	2.1297	1.35111	3.8096	0.56439
12600	12600	1066.99	1.1223	0.31491	2.1345	1.35409	3.8081	0.56435
12700	12700	1066.59	1.1217	0.30943	2.1393	1.35708	3.8066	0.56431
12800	12800	1066.19	1.1210	0.30395	2.1441	1.36006	3.8051	0.56427
12900	12900	1065.79	1.1204	0.29847	2.1489	1.36305	3.8036	0.56423
13000	13000	1065.39	1.1197	0.29299	2.1537	1.36603	3.8021	0.56419
13100	13100	1064.99	1.1191	0.28751	2.1585	1.36902	3.8006	0.56415
13200	13200	1064.59	1.1184	0.28203	2.1633	1.37200	3.7991	0.56411
13300	13300	1064.19	1.1178	0.27655	2.1681	1.37499	3.7976	0.56407
13400	13400	1063.79	1.1171	0.27107	2.1729	1.37797	3.7961	0.56403
13500	13500	1063.39	1.1165	0.26559	2.1777	1.38096	3.7946	0.56399
13600	13600	1062.99	1.1158	0.26011	2.1825	1.38394	3.7931	0.56395
13700	13700	1062.59	1.1152	0.25463	2.1873	1.38693	3.7916	0.56391
13800	13800	1062.19	1.1145	0.24915	2.1921	1.38991	3.7901	0.56387
13900	13900	1061.79	1.1139	0.24367	2.1969	1.39290	3.7886	0.56383
14000	14000	1061.39	1.1132	0.23819	2.2017	1.39588	3.7871	0.56379
14100	14100	1060.99	1.1126	0.23271	2.2065	1.39887	3.7856	0.56375
14200	14200	1060.59	1.1119	0.22723	2.2113	1.40185	3.7841	0.56371
14300	14300	1060.19	1.1113	0.22175	2.2161	1.40484	3.7826	0.56367
14400	14400	1059.79	1.1106	0.21627	2.2209	1.40782	3.7811	0.56363
14500	14500	1059.39	1.1100	0.21079	2.2257	1.41081	3.7796	0.56359
14600	14600	1058.99	1.1093	0.20531	2.2305	1.41379	3.7781	0.56355
14700	14700	1058.59	1.1087	0.19983	2.2353	1.41678	3.7766	0.56351
14800	14800	1058.19	1.1080	0.19435	2.2401	1.41976	3.7751	0.56347
14900	14900	1057.79	1.1074	0.18887	2.2449	1.42275	3.7736	0.56343
15000	15000	1057.39	1.1067	0.18339	2.2497	1.42573	3.7721	0.56339

TABLE VI—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
7000	6998	1009.26	1.1509 - 5	9.62176 - 1	1.8661 - 6	1.18668 + 0	3.8912 - 6	9.34673 - 1
7100	7098	1009.87	1.1503	9.61629	1.8706	1.18982	3.8887	9.34850
7200	7198	1009.87	1.1504	9.61082	1.8756	1.19280	3.8862	9.35027
7300	7297	1009.08	1.1500	9.60535	1.8802	1.19580	3.8834	9.35204
7400	7397	1007.69	1.1503	9.59988	1.8849	1.19880	3.8811	9.35380
7500	7497	1007.20	1.1504	9.59440	1.8896	1.20182	3.8785	9.35557
7600	7597	1006.90	1.1500	9.58893	1.8944	1.20484	3.8760	9.35733
7700	7697	1006.51	1.1523	9.58345	1.8991	1.20787	3.8735	9.35910
7800	7797	1006.11	1.1517	9.57797	1.9039	1.21092	3.8709	9.36086
7900	7897	1005.72	1.1510	9.57249	1.9087	1.21397	3.8684	9.36262
8000	7997	1005.32	1.1505 - 5	9.56701 - 1	1.9136 - 6	1.21703 + 0	3.8659 - 6	9.36438 - 1
8100	8097	1004.93	1.1497	9.56152	1.9184	1.22011	3.8633	9.36615
8200	8197	1004.53	1.1490	9.55603	1.9232	1.22319	3.8608	9.36791
8300	8297	1004.14	1.1486	9.55055	1.9281	1.22626	3.8582	9.36968
8400	8397	1003.75	1.1477	9.54506	1.9330	1.22933	3.8557	9.37144
8500	8497	1003.35	1.1470	9.53958	1.9379	1.23239	3.8532	9.37321
8600	8596	1002.95	1.1464	9.53407	1.9426	1.23542	3.8506	9.37498
8700	8696	1002.56	1.1457	9.52857	1.9477	1.23845	3.8481	9.37674
8800	8796	1002.16	1.1451	9.52308	1.9524	1.24149	3.8455	9.37851
8900	8896	1001.77	1.1444	9.51758	1.9576	1.24450	3.8430	9.38028
9000	8996	1001.37	1.1437 - 5	9.51207 - 1	1.9624 - 6	1.24821 + 0	3.8404 - 6	9.38191 - 1
9100	9096	1000.97	1.1431	9.50657	1.9674	1.25130	3.8379	9.38368
9200	9196	1000.58	1.1424	9.50107	1.9724	1.25437	3.8354	9.38544
9300	9296	1000.18	1.1418	9.49556	1.9774	1.25746	3.8328	9.38721
9400	9396	1000.79	1.1411	9.49005	1.9824	1.26049	3.8303	9.38898
9500	9496	1000.39	1.1404	9.48454	1.9877	1.26348	3.8277	9.39074
9600	9596	1000.00	1.1398	9.47903	1.9927	1.26646	3.8252	9.39251
9700	9696	1000.60	1.1391	9.47351	1.9978	1.26944	3.8226	9.39428
9800	9796	1000.20	1.1384	9.46800	2.0029	1.27240	3.8201	9.39604
9900	9896	1000.80	1.1378	9.46248	2.0081	1.27541	3.8175	9.39781
10000	9995	1000.40	1.1371 - 5	9.45696 - 1	2.0132 - 6	1.27941 + 0	3.8150 - 6	9.39932 - 1
10100	10095	1000.01	1.1364	9.45144	2.0185	1.28240	3.8124	9.40109
10200	10195	1000.61	1.1358	9.44591	2.0235	1.28547	3.8099	9.40286
10300	10295	1000.21	1.1351	9.44039	2.0287	1.28852	3.8073	9.40463
10400	10395	1000.81	1.1345	9.43486	2.0339	1.29155	3.8048	9.40640
10500	10495	1000.42	1.1338	9.42933	2.0391	1.29459	3.8022	9.40817
10600	10595	1000.02	1.1331	9.42380	2.0444	1.29763	3.7997	9.40994
10700	10695	1000.62	1.1325	9.41827	2.0496	1.30067	3.7971	9.41171
10800	10794	1000.22	1.1318	9.41273	2.0549	1.30371	3.7946	9.41348
10900	10894	1000.82	1.1311	9.40719	2.0602	1.30675	3.7920	9.41525
11000	10994	1000.42	1.1305 - 5	9.40166 - 1	2.0655 - 6	1.31076 + 0	3.7895 - 6	9.41688 - 1
11100	11094	1000.02	1.1298	9.39612	2.0708	1.31379	3.7869	9.41865
11200	11194	1000.62	1.1291	9.39057	2.0761	1.31683	3.7844	9.42042
11300	11294	1000.22	1.1285	9.38503	2.0813	1.31987	3.7818	9.42219
11400	11394	1000.82	1.1278	9.37948	2.0866	1.32291	3.7793	9.42396
11500	11494	1000.42	1.1271	9.37394	2.0923	1.32595	3.7767	9.42573
11600	11594	1000.02	1.1265	9.36839	2.0977	1.32899	3.7742	9.42750
11700	11694	1000.62	1.1258	9.36285	2.1031	1.33203	3.7716	9.42927
11800	11794	1000.22	1.1251	9.35728	2.1086	1.33507	3.7690	9.43104
11900	11894	1000.82	1.1245	9.35172	2.1140	1.33811	3.7665	9.43281
12000	11993	1000.43	1.1238 - 5	9.34617 - 1	2.1195 - 6	1.34202 + 0	3.7639 - 6	9.43438 - 1
12100	12093	1000.03	1.1231	9.34061	2.1250	1.34506	3.7614	9.43615
12200	12193	1000.63	1.1225	9.33505	2.1305	1.34810	3.7589	9.43792
12300	12293	1000.23	1.1218	9.32948	2.1361	1.35114	3.7563	9.43969
12400	12393	1000.83	1.1211	9.32392	2.1416	1.35418	3.7537	9.44146
12500	12493	1000.43	1.1204	9.31835	2.1472	1.35722	3.7511	9.44323
12600	12592	1000.02	1.1198	9.31278	2.1528	1.36026	3.7486	9.44500
12700	12692	1000.62	1.1191	9.30721	2.1584	1.36330	3.7460	9.44677
12800	12792	1000.22	1.1184	9.30164	2.1640	1.36634	3.7435	9.44854
12900	12892	1000.82	1.1178	9.29606	2.1697	1.36938	3.7409	9.45031
13000	12992	1000.42	1.1171 - 5	9.29049 - 1	2.1753 - 6	1.37332 + 0	3.7383 - 6	9.45188 - 1
13100	13092	1000.02	1.1164	9.28491	2.1810	1.37636	3.7358	9.45365
13200	13192	1000.62	1.1158	9.27933	2.1867	1.37940	3.7332	9.45542
13300	13292	1000.22	1.1151	9.27375	2.1924	1.38244	3.7306	9.45719
13400	13392	1000.82	1.1144	9.26816	2.1982	1.38548	3.7281	9.45896
13500	13492	1000.42	1.1137	9.26258	2.2039	1.38852	3.7255	9.46073
13600	13592	1000.02	1.1131	9.25699	2.2097	1.39156	3.7230	9.46250
13700	13692	1000.62	1.1124	9.25140	2.2155	1.39460	3.7204	9.46427
13800	13791	1000.22	1.1117	9.24581	2.2213	1.39764	3.7179	9.46604
13900	13891	1000.82	1.1111	9.24021	2.2272	1.40068	3.7153	9.46781
14000	13991	1000.43	1.1104 - 5	9.23462 - 1	2.2330 - 6	1.40462 + 0	3.7127 - 6	9.46938 - 1
14100	14091	1000.03	1.1097	9.22902	2.2389	1.40766	3.7101	9.47115
14200	14191	1000.63	1.1090	9.22342	2.2448	1.41071	3.7076	9.47292
14300	14291	1000.23	1.1084	9.21782	2.2507	1.41375	3.7050	9.47469
14400	14391	1000.83	1.1077	9.21222	2.2566	1.41679	3.7024	9.47646
14500	14491	1000.43	1.1070	9.20661	2.2624	1.41984	3.6999	9.47823
14600	14591	1000.03	1.1063	9.20101	2.2684	1.42288	3.6973	9.47999
14700	14691	1000.63	1.1057	9.19540	2.2744	1.42593	3.6947	9.48176
14800	14791	1000.23	1.1050	9.18979	2.2804	1.42897	3.6921	9.48353
14900	14891	1000.83	1.1043	9.18417	2.2864	1.43202	3.6896	9.48530

TABLE III.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C_s ft/sec	μ lb/ft ² sec	$\frac{\mu}{\rho_0}$	η ft ² /sec	$\frac{\eta}{\rho_0}$	k BTU/ft ² sec °F	$\frac{k}{\rho_0}$
15000	15011	1057.31	1.1016 - 5	0.17795 - 1	2.2933 - 4	1.55550 + 0	3.6067 - 6	0.64397 - 1
15100	15111	1058.91	1.1020	0.17253	2.2904	1.55545	3.6061	0.65766
15200	15211	1060.50	1.1022	0.16670	2.2855	1.55534	3.6056	0.65131
15300	15311	1062.10	1.1015	0.16107	2.2817	1.55524	3.6050	0.64497
15400	15411	1063.49	1.1009	0.15564	2.2778	1.55515	3.6046	0.63863
15500	15512	1065.20	1.1002	0.15041	2.2740	1.55507	3.6042	0.63230
15600	15612	1066.60	1.0995	0.14517	2.2702	1.55499	3.6038	0.62596
15700	15712	1068.47	1.0988	0.13993	2.2664	1.55490	3.6034	0.61962
15800	15812	1069.84	1.0981	0.13469	2.2626	1.55482	3.6030	0.61328
15900	15912	1071.66	1.0975	0.12925	2.2589	1.55473	3.6025	0.60694
16000	16012	1073.25	1.0968 - 5	0.12411 - 1	2.2551 - 4	1.55466 + 0	3.6020 - 6	0.60059 - 1
16100	16112	1075.06	1.0961	0.11897	2.2514	1.55458	3.6016	0.59425
16200	16213	1076.86	1.0954	0.11382	2.2477	1.55450	3.6012	0.58790
16300	16313	1078.63	1.0948	0.10867	2.2439	1.55442	3.6008	0.58156
16400	16413	1080.62	1.0941	0.09902	2.2402	1.55434	3.6004	0.57521
16500	16513	1081.21	1.0934	0.09337	2.2364	1.55426	3.6000	0.56886
16600	16613	1082.81	1.0927	0.08771	2.2327	1.55418	3.6000	0.56251
16700	16713	1084.40	1.0920	0.08205	2.2289	1.55410	3.6000	0.55616
16800	16813	1086.00	1.0914	0.07639	2.2252	1.55402	3.6000	0.54981
16900	16913	1087.58	1.0907	0.07073	2.2214	1.55394	3.6000	0.54345
17000	17013	1089.17	1.0900 - 5	0.06507 - 1	2.2176 - 4	1.55386 + 0	3.6000 - 6	0.53709 - 1
17100	17113	1090.77	1.0893	0.05940	2.2139	1.55378	3.6000	0.53074
17200	17213	1092.34	1.0886	0.05374	2.2101	1.55370	3.6000	0.52438
17300	17313	1093.93	1.0879	0.04807	2.2064	1.55362	3.6000	0.51803
17400	17413	1095.54	1.0873	0.04240	2.2026	1.55354	3.6000	0.51167
17500	17513	1097.13	1.0866	0.03672	2.1989	1.55346	3.6000	0.50532
17600	17613	1098.72	1.0859	0.03105	2.1951	1.55338	3.6000	0.49896
17700	17713	1099.31	1.0852	0.02537	2.1914	1.55330	3.6000	0.49260
17800	17813	1100.90	1.0845	0.01969	2.1876	1.55322	3.6000	0.48625
17900	17913	1102.49	1.0839	0.01401	2.1839	1.55314	3.6000	0.47989
18000	18016	1104.08	1.0832 - 5	0.00832 - 1	2.1801 - 4	1.55306 + 0	3.6000 - 6	0.47354 - 1
18100	18116	1105.67	1.0825	0.00264	2.1764	1.55298	3.6000	0.46718
18200	18216	1107.26	1.0818	0.00095	2.1726	1.55290	3.6000	0.46083
18300	18316	1108.85	1.0811	0.00124	2.1689	1.55282	3.6000	0.45447
18400	18416	1110.44	1.0804	0.00157	2.1651	1.55274	3.6000	0.44812
18500	18516	1112.03	1.0797	0.00190	2.1614	1.55266	3.6000	0.44176
18600	18617	1113.62	1.0791	0.00174	2.1576	1.55258	3.6000	0.43541
18700	18717	1115.21	1.0784	0.00158	2.1539	1.55250	3.6000	0.42905
18800	18817	1116.80	1.0777	0.00142	2.1501	1.55242	3.6000	0.42270
18900	18917	1118.39	1.0770	0.00126	2.1464	1.55234	3.6000	0.41634
19000	19017	1119.97	1.0763 - 5	0.00110 - 1	2.1426 - 4	1.55226 + 0	3.6000 - 6	0.40999 - 1
19100	19118	1121.56	1.0756	0.00094	2.1389	1.55218	3.6000	0.40363
19200	19218	1123.15	1.0749	0.00078	2.1351	1.55210	3.6000	0.39728
19300	19318	1124.74	1.0743	0.00062	2.1314	1.55202	3.6000	0.39092
19400	19418	1126.33	1.0736	0.00046	2.1276	1.55194	3.6000	0.38457
19500	19518	1127.91	1.0729	0.00030	2.1239	1.55186	3.6000	0.37821
19600	19618	1129.50	1.0722	0.00014	2.1201	1.55178	3.6000	0.37186
19700	19719	1131.09	1.0715	0.00008	2.1164	1.55170	3.6000	0.36550
19800	19819	1132.68	1.0708	0.00002	2.1126	1.55162	3.6000	0.35915
19900	19919	1134.26	1.0701	0.00000	2.1089	1.55154	3.6000	0.35279
20000	20019	1135.85	1.0694 - 5	0.00000 - 1	2.1051 - 4	1.55146 + 0	3.6000 - 6	0.34644 - 1
20100	20119	1137.44	1.0687	0.00000	2.1014	1.55138	3.6000	0.34008
20200	20220	1139.02	1.0681	0.00000	2.0976	1.55130	3.6000	0.33373
20300	20320	1140.61	1.0674	0.00000	2.0939	1.55122	3.6000	0.32737
20400	20420	1142.20	1.0667	0.00000	2.0901	1.55114	3.6000	0.32102
20500	20520	1143.78	1.0660	0.00000	2.0864	1.55106	3.6000	0.31466
20600	20620	1145.37	1.0653	0.00000	2.0826	1.55098	3.6000	0.30831
20700	20721	1146.95	1.0646	0.00000	2.0789	1.55090	3.6000	0.30195
20800	20821	1148.54	1.0639	0.00000	2.0751	1.55082	3.6000	0.29560
20900	20921	1150.12	1.0632	0.00000	2.0714	1.55074	3.6000	0.28924
21000	21021	1151.71	1.0626 - 5	0.00000 - 1	2.0676 - 4	1.55066 + 0	3.6000 - 6	0.28289 - 1
21100	21121	1153.29	1.0619	0.00000	2.0639	1.55058	3.6000	0.27653
21200	21222	1154.88	1.0612	0.00000	2.0601	1.55050	3.6000	0.27018
21300	21322	1156.46	1.0605	0.00000	2.0564	1.55042	3.6000	0.26382
21400	21422	1158.05	1.0598	0.00000	2.0526	1.55034	3.6000	0.25747
21500	21522	1159.63	1.0591	0.00000	2.0489	1.55026	3.6000	0.25111
21600	21622	1161.22	1.0584	0.00000	2.0451	1.55018	3.6000	0.24476
21700	21723	1162.80	1.0577	0.00000	2.0414	1.55010	3.6000	0.23840
21800	21823	1164.38	1.0570	0.00000	2.0376	1.55002	3.6000	0.23205
21900	21923	1165.97	1.0563	0.00000	2.0339	1.55000	3.6000	0.22569
22000	22023	1167.55	1.0556 - 5	0.00000 - 1	2.0301 - 4	1.54992 + 0	3.6000 - 6	0.21934 - 1
22100	22123	1169.13	1.0549	0.00000	2.0264	1.54984	3.6000	0.21298
22200	22224	1170.72	1.0542	0.00000	2.0226	1.54976	3.6000	0.20663
22300	22324	1172.30	1.0535	0.00000	2.0189	1.54968	3.6000	0.20027
22400	22424	1173.88	1.0528	0.00000	2.0151	1.54960	3.6000	0.19392
22500	22524	1175.47	1.0521	0.00000	2.0114	1.54952	3.6000	0.18756
22600	22625	1177.05	1.0514	0.00000	2.0076	1.54944	3.6000	0.18121
22700	22725	1178.63	1.0508	0.00000	2.0039	1.54936	3.6000	0.17485
22800	22825	1180.21	1.0501	0.00000	2.0001	1.54928	3.6000	0.16850
22900	22925	1181.79	1.0494	0.00000	1.9964	1.54920	3.6000	0.16214

TABLE III.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
15000	14989	1057.36	1.1030 - 5	9.17950 - 1	2.2927 - 6	1.45817 + 0	3.6870 - 6	9.04465 - 1
15100	15089	1056.95	1.1030	9.17294 - 1	2.2928	1.46203	3.6866	9.05033
15200	15189	1056.55	1.1023	9.16732	2.2929	1.46591	3.68619	9.05261
15300	15289	1056.14	1.1016	9.16170	2.2930	1.46980	3.68575	9.05489
15400	15389	1055.74	1.1009	9.15608	2.2931	1.47370	3.68531	9.05717
15500	15489	1055.33	1.1003	9.15046	2.2932	1.47760	3.68487	9.05945
15600	15589	1054.92	1.0996	9.14484	2.2933	1.48151	3.68443	9.06173
15700	15689	1054.52	1.0989	9.13922	2.2934	1.48541	3.68399	9.06401
15800	15789	1054.11	1.0982	9.13360	2.2935	1.48931	3.68355	9.06629
15900	15889	1053.71	1.0976	9.12798	2.2936	1.49322	3.68311	9.06857
16000	15989	1053.30	1.0969	9.12236	2.2937	1.49712	3.68267	9.07085
16100	16089	1052.89	1.0962	9.11674	2.2938	1.50103	3.68223	9.07313
16200	16189	1052.49	1.0955	9.11112	2.2939	1.50493	3.68179	9.07541
16300	16289	1052.08	1.0948	9.10550	2.2940	1.50884	3.68135	9.07769
16400	16389	1051.68	1.0942	9.09988	2.2941	1.51274	3.68091	9.07997
16500	16489	1051.27	1.0935	9.09426	2.2942	1.51665	3.68047	9.08225
16600	16589	1050.86	1.0928	9.08864	2.2943	1.52055	3.68003	9.08453
16700	16689	1050.45	1.0921	9.08302	2.2944	1.52446	3.67959	9.08681
16800	16789	1050.05	1.0914	9.07740	2.2945	1.52836	3.67915	9.08909
16900	16889	1049.64	1.0908	9.07178	2.2946	1.53227	3.67871	9.09137
17000	16989	1049.23	1.0901	9.06616	2.2947	1.53617	3.67827	9.09365
17100	17089	1048.82	1.0894	9.06054	2.2948	1.54008	3.67783	9.09593
17200	17189	1048.42	1.0887	9.05492	2.2949	1.54398	3.67739	9.09821
17300	17289	1048.01	1.0880	9.04930	2.2950	1.54789	3.67695	9.10049
17400	17389	1047.60	1.0874	9.04368	2.2951	1.55179	3.67651	9.10277
17500	17489	1047.19	1.0867	9.03806	2.2952	1.55570	3.67607	9.10505
17600	17589	1046.78	1.0860	9.03244	2.2953	1.55960	3.67563	9.10733
17700	17689	1046.37	1.0853	9.02682	2.2954	1.56351	3.67519	9.10961
17800	17789	1045.96	1.0846	9.02120	2.2955	1.56741	3.67475	9.11189
17900	17889	1045.55	1.0840	9.01558	2.2956	1.57132	3.67431	9.11417
18000	17989	1045.15	1.0833	9.00996	2.2957	1.57522	3.67387	9.11645
18100	18089	1044.74	1.0826	9.00434	2.2958	1.57913	3.67343	9.11873
18200	18189	1044.33	1.0819	9.00872	2.2959	1.58303	3.67299	9.12101
18300	18289	1043.92	1.0812	9.00310	2.2960	1.58694	3.67255	9.12329
18400	18389	1043.51	1.0805	9.00748	2.2961	1.59084	3.67211	9.12557
18500	18489	1043.10	1.0798	9.00186	2.2962	1.59475	3.67167	9.12785
18600	18589	1042.69	1.0791	9.00624	2.2963	1.59865	3.67123	9.13013
18700	18689	1042.28	1.0784	9.00062	2.2964	1.60256	3.67079	9.13241
18800	18789	1041.87	1.0777	9.00500	2.2965	1.60646	3.67035	9.13469
18900	18889	1041.46	1.0771	9.00938	2.2966	1.61037	3.66991	9.13697
19000	18989	1041.05	1.0764	9.00376	2.2967	1.61427	3.66947	9.13925
19100	19089	1040.63	1.0758	9.00814	2.2968	1.61818	3.66903	9.14153
19200	19189	1040.22	1.0751	9.00252	2.2969	1.62208	3.66859	9.14381
19300	19289	1039.81	1.0744	9.00690	2.2970	1.62599	3.66815	9.14609
19400	19389	1039.40	1.0737	9.00128	2.2971	1.62989	3.66771	9.14837
19500	19489	1038.99	1.0730	9.00566	2.2972	1.63380	3.66727	9.15065
19600	19589	1038.58	1.0723	9.00004	2.2973	1.63770	3.66683	9.15293
19700	19689	1038.17	1.0716	9.00442	2.2974	1.64161	3.66639	9.15521
19800	19789	1037.76	1.0710	9.00880	2.2975	1.64551	3.66595	9.15749
19900	19889	1037.34	1.0703	9.00318	2.2976	1.64942	3.66551	9.15977
20000	19989	1036.93	1.0696	8.99756	2.2977	1.65332	3.66507	9.16205
20100	20089	1036.52	1.0689	8.99194	2.2978	1.65723	3.66463	9.16433
20200	20189	1036.10	1.0682	8.99632	2.2979	1.66113	3.66419	9.16661
20300	20289	1035.69	1.0675	8.99070	2.2980	1.66504	3.66375	9.16889
20400	20389	1035.28	1.0668	8.98508	2.2981	1.66894	3.66331	9.17117
20500	20489	1034.86	1.0661	8.98946	2.2982	1.67285	3.66287	9.17345
20600	20589	1034.45	1.0654	8.98384	2.2983	1.67675	3.66243	9.17573
20700	20689	1034.04	1.0648	8.98822	2.2984	1.68066	3.66199	9.17801
20800	20789	1033.62	1.0641	8.98260	2.2985	1.68456	3.66155	9.18029
20900	20889	1033.21	1.0634	8.98698	2.2986	1.68847	3.66111	9.18257
21000	20989	1032.80	1.0627	8.98136	2.2987	1.69237	3.66067	9.18485
21100	21089	1032.38	1.0620	8.98574	2.2988	1.69628	3.66023	9.18713
21200	21189	1031.97	1.0613	8.98012	2.2989	1.70018	3.65979	9.18941
21300	21289	1031.55	1.0606	8.98450	2.2990	1.70409	3.65935	9.19169
21400	21389	1031.14	1.0599	8.98888	2.2991	1.70799	3.65891	9.19397
21500	21489	1030.72	1.0592	8.99326	2.2992	1.71190	3.65847	9.19625
21600	21589	1030.31	1.0585	8.99764	2.2993	1.71580	3.65803	9.19853
21700	21689	1029.89	1.0578	8.99202	2.2994	1.71971	3.65759	9.20081
21800	21789	1029.48	1.0572	8.99640	2.2995	1.72361	3.65715	9.20309
21900	21889	1029.06	1.0565	8.99078	2.2996	1.72752	3.65671	9.20537
22000	21989	1028.65	1.0558	8.98516	2.2997	1.73142	3.65627	9.20765
22100	22089	1028.23	1.0551	8.98954	2.2998	1.73533	3.65583	9.20993
22200	22189	1027.82	1.0544	8.99392	2.2999	1.73923	3.65539	9.21221
22300	22289	1027.40	1.0537	8.99830	2.3000	1.74314	3.65495	9.21449
22400	22389	1026.98	1.0530	8.99268	2.3001	1.74704	3.65451	9.21677
22500	22489	1026.57	1.0523	8.99706	2.3002	1.75095	3.65407	9.21905
22600	22589	1026.15	1.0516	8.99144	2.3003	1.75485	3.65363	9.22133
22700	22689	1025.73	1.0509	8.99582	2.3004	1.75876	3.65319	9.22361
22800	22789	1025.32	1.0502	8.99020	2.3005	1.76266	3.65275	9.22589
22900	22889	1024.90	1.0495	8.99458	2.3006	1.76657	3.65231	9.22817

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
M, ft	Z, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
23000	23025	924.50	1.0007 - 5	0.72169 - 1	2.0530 - 6	1.01850 + 0	3.4791 - 6	0.55352 - 1
23100	23126	924.96	1.0000	0.71570	2.0510	1.01961	3.4765	0.55169
23200	23226	925.54	1.0073	0.70991	2.0491	1.02076	3.4739	0.54986
23300	23326	926.12	1.0044	0.70412	2.0471	1.02190	3.4713	0.54803
23400	23426	926.70	1.0015	0.69832	2.0453	1.02304	3.4686	0.54620
23500	23527	927.28	1.0052	0.69252	2.0434	1.02418	3.4660	0.54437
23600	23627	927.84	1.0045	0.68672	2.0415	1.02532	3.4634	0.54254
23700	23727	928.44	1.0038	0.68092	2.0398	1.02647	3.4608	0.54070
23800	23827	929.02	1.0031	0.67511	2.0381	1.02761	3.4582	0.53887
23900	23927	929.60	1.0024	0.66930	2.0363	1.02875	3.4555	0.53704
24000	24026	930.18	1.0017 - 5	0.66349 - 1	2.0346 - 6	1.02989 + 0	3.4529 - 6	0.53521 - 1
24100	24126	930.76	1.0010	0.65769	2.0326	1.03103	3.4503	0.53338
24200	24226	931.34	1.0003	0.65187	2.0307	1.03217	3.4477	0.53155
24300	24326	931.92	1.0394	0.64605	2.0287	1.03331	3.4451	0.52972
24400	24427	932.50	1.0385	0.64023	2.0268	1.03445	3.4424	0.52789
24500	24527	933.08	1.0376	0.63441	2.0248	1.03559	3.4398	0.52606
24600	24627	933.66	1.0367	0.62859	2.0229	1.03673	3.4372	0.52423
24700	24727	934.24	1.0358	0.62276	2.0209	1.03787	3.4346	0.52240
24800	24828	934.82	1.0349	0.61694	2.0190	1.03901	3.4319	0.52057
24900	24928	935.40	1.0340	0.61111	2.0170	1.04015	3.4293	0.51874
25000	25028	935.98	1.0331 - 5	0.60528 - 1	2.0153 - 6	1.04129 + 0	3.4267 - 6	0.51691 - 1
25100	25128	936.56	1.0322	0.59946	2.0133	1.04243	3.4241	0.51508
25200	25228	937.14	1.0313	0.59364	2.0114	1.04357	3.4215	0.51325
25300	25328	937.72	1.0304	0.58782	2.0094	1.04471	3.4189	0.51142
25400	25429	938.30	1.0295	0.58199	2.0075	1.04585	3.4163	0.50959
25500	25529	938.88	1.0286	0.57617	2.0055	1.04699	3.4137	0.50776
25600	25629	939.46	1.0277	0.57035	2.0036	1.04813	3.4111	0.50593
25700	25729	940.04	1.0268	0.56453	2.0016	1.04927	3.4085	0.50410
25800	25829	940.62	1.0259	0.55871	1.9997	1.05041	3.4059	0.50227
25900	25929	941.20	1.0250	0.55289	1.9977	1.05155	3.4033	0.50044
26000	26029	941.78	1.0241	0.54707	1.9958	1.05269	3.4007	0.49861
26100	26128	942.36	1.0232 - 5	0.54125 - 1	1.9941 - 6	1.05383 + 0	3.3981 - 6	0.49678 - 1
26200	26228	942.94	1.0223	0.53543	1.9921	1.05497	3.3955	0.49495
26300	26328	943.52	1.0214	0.52961	1.9902	1.05611	3.3929	0.49312
26400	26428	944.10	1.0205	0.52379	1.9882	1.05725	3.3903	0.49129
26500	26528	944.68	1.0196	0.51797	1.9863	1.05839	3.3877	0.48946
26600	26628	945.26	1.0187	0.51215	1.9843	1.05953	3.3851	0.48763
26700	26728	945.84	1.0178	0.50633	1.9824	1.06067	3.3825	0.48580
26800	26828	946.42	1.0169	0.50051	1.9804	1.06181	3.3799	0.48397
26900	26928	947.00	1.0160	0.49469	1.9785	1.06295	3.3773	0.48214
27000	27027	947.58	1.0151 - 5	0.48887 - 1	1.9768 - 6	2.06409 + 0	3.3747 - 6	0.48031 - 1
27100	27127	948.16	1.0142	0.48305	1.9748	2.06523	3.3721	0.47848
27200	27227	948.74	1.0133	0.47723	1.9729	2.06637	3.3695	0.47665
27300	27327	949.32	1.0124	0.47141	1.9709	2.06751	3.3669	0.47482
27400	27427	949.90	1.0115	0.46559	1.9690	2.06865	3.3643	0.47299
27500	27527	950.48	1.0106	0.45977	1.9670	2.06979	3.3617	0.47116
27600	27627	951.06	1.0097	0.45395	1.9651	2.07093	3.3591	0.46933
27700	27727	951.64	1.0088	0.44813	1.9631	2.07207	3.3565	0.46750
27800	27827	952.22	1.0079	0.44231	1.9612	2.07321	3.3539	0.46567
27900	27927	952.80	1.0070	0.43649	1.9592	2.07435	3.3513	0.46384
28000	28026	953.38	1.0061 - 5	0.43067 - 1	1.9575 - 6	2.07549 + 0	3.3487 - 6	0.46201 - 1
28100	28126	953.96	1.0052	0.42485	1.9555	2.07663	3.3461	0.46018
28200	28226	954.54	1.0043	0.41903	1.9536	2.07777	3.3435	0.45835
28300	28326	955.12	1.0034	0.41321	1.9516	2.07891	3.3409	0.45652
28400	28426	955.70	1.0025	0.40739	1.9497	2.08005	3.3383	0.45469
28500	28526	956.28	1.0016	0.40157	1.9477	2.08119	3.3357	0.45286
28600	28626	956.86	1.0007	0.39575	1.9458	2.08233	3.3331	0.45103
28700	28726	957.44	1.0000	0.38993	1.9438	2.08347	3.3305	0.44920
28800	28826	958.02	1.0079	0.38411	1.9419	2.08461	3.3279	0.44737
28900	28926	958.60	1.0070	0.37829	1.9400	2.08575	3.3253	0.44554
29000	29025	959.18	1.0061 - 5	0.37247 - 1	1.9383 - 6	2.08689 + 0	3.3227 - 6	0.44371 - 1
29100	29125	959.76	1.0052	0.36665	1.9363	2.08803	3.3201	0.44188
29200	29225	960.34	1.0043	0.36083	1.9344	2.08917	3.3175	0.44005
29300	29325	960.92	1.0034	0.35501	1.9324	2.09031	3.3149	0.43822
29400	29425	961.50	1.0025	0.34919	1.9305	2.09145	3.3123	0.43639
29500	29525	962.08	1.0016	0.34337	1.9285	2.09259	3.3097	0.43456
29600	29625	962.66	1.0007	0.33755	1.9266	2.09373	3.3071	0.43273
29700	29725	963.24	1.0000	0.33173	1.9246	2.09487	3.3045	0.43090
29800	29825	963.82	1.0000	0.32591	1.9227	2.09601	3.3019	0.42907
29900	29925	964.40	1.0000	0.32009	1.9207	2.09715	3.2993	0.42724
30000	30024	964.98	9.9931 - 6	0.31427 - 1	1.9190 - 6	2.22138 + 0	3.2967 - 6	0.42541 - 1
30100	30124	965.56	9.9859	0.30845	1.9170	2.22252	3.2941	0.42358
30200	30224	966.14	9.9787	0.30263	1.9151	2.22366	3.2915	0.42175
30300	30324	966.72	9.9715	0.29681	1.9131	2.22480	3.2889	0.41992
30400	30424	967.30	9.9643	0.29099	1.9112	2.22594	3.2863	0.41809
30500	30524	967.88	9.9571	0.28517	1.9092	2.22708	3.2837	0.41626
30600	30624	968.46	9.9500	0.27935	1.9073	2.22822	3.2811	0.41443
30700	30724	969.04	9.9428	0.27353	1.9053	2.22936	3.2785	0.41260
30800	30824	969.62	9.9356	0.26771	1.9034	2.23050	3.2759	0.41077
30900	30924	970.20	9.9284	0.26189	1.9014	2.23164	3.2733	0.40894

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
23000	22975	1024.48	1.0489 - 5	0.72296 - 1	2.9509 - 4	1.01521 + 0	5.4792 - 4	0.55315 - 1
23100	23074	1024.04	1.0482	0.71710	2.9509	1.01520	5.4772	0.54879
23200	23174	1023.60	1.0475	0.71140	2.9510	1.02392	5.4795	0.54282
23300	23274	1023.15	1.0468	0.70562	2.9510	1.03255	5.4719	0.53590
23400	23374	1022.61	1.0461	0.69984	2.9511	1.04117	5.4643	0.52900
23500	23474	1022.07	1.0454	0.69405	2.9512	1.04978	5.4567	0.52212
23600	23573	1021.53	1.0447	0.68827	2.9514	1.05838	5.4491	0.51524
23700	23673	1021.00	1.0440	0.68248	2.9516	1.06697	5.4415	0.50836
23800	23773	1020.46	1.0433	0.67669	2.9518	1.07556	5.4339	0.50148
23900	23873	1020.00	1.0426	0.67090	2.9521	1.08415	5.4263	0.49460
24000	23972	1019.50	1.0419 - 5	0.66510 - 1	2.9523 - 4	1.09274 + 0	5.4187 - 4	0.48772 - 1
24100	24072	1019.00	1.0412	0.65930	2.9524	1.07027	5.4110	0.48084
24200	24172	1018.54	1.0405	0.65350	2.9526	1.07557	5.4034	0.47396
24300	24272	1018.04	1.0398	0.64770	2.9527	1.08087	5.3958	0.46708
24400	24371	1017.55	1.0391	0.64190	2.9529	1.08617	5.3882	0.46020
24500	24471	1017.05	1.0384	0.63610	2.9531	1.09147	5.3806	0.45332
24600	24571	1016.55	1.0377	0.63030	2.9532	1.09677	5.3730	0.44644
24700	24671	1016.05	1.0370	0.62450	2.9534	1.10207	5.3654	0.43956
24800	24771	1015.55	1.0363	0.61870	2.9536	1.10737	5.3578	0.43268
24900	24870	1015.05	1.0356	0.61290	2.9538	1.11267	5.3502	0.42580
25000	24970	1014.55	1.0349 - 5	0.60702 - 1	2.9541 - 4	1.12126 + 0	5.3426 - 4	0.41892 - 1
25100	25070	1014.05	1.0342	0.60120	2.9543	1.12656	5.3350	0.41204
25200	25170	1013.55	1.0335	0.59539	2.9545	1.13186	5.3274	0.40516
25300	25269	1013.05	1.0328	0.58959	2.9547	1.13716	5.3198	0.39828
25400	25369	1012.55	1.0321	0.58379	2.9549	1.14246	5.3122	0.39140
25500	25469	1012.05	1.0314	0.57799	2.9551	1.14776	5.3046	0.38452
25600	25569	1011.55	1.0307	0.57219	2.9553	1.15306	5.2970	0.37764
25700	25669	1011.05	1.0300	0.56639	2.9555	1.15836	5.2894	0.37076
25800	25769	1010.55	1.0293	0.56059	2.9557	1.16366	5.2818	0.36388
25900	25869	1010.05	1.0286	0.55479	2.9559	1.16896	5.2742	0.35700
26000	25969	1009.55	1.0279 - 5	0.54890 - 1	2.9562 - 4	1.17755 + 0	5.2666 - 4	0.35012 - 1
26100	26069	1009.05	1.0272	0.54310	2.9564	1.18285	5.2590	0.34324
26200	26169	1008.55	1.0265	0.53730	2.9566	1.18815	5.2514	0.33636
26300	26269	1008.05	1.0258	0.53150	2.9568	1.19345	5.2438	0.32948
26400	26369	1007.55	1.0251	0.52570	2.9570	1.19875	5.2362	0.32260
26500	26469	1007.05	1.0244	0.51990	2.9572	1.20405	5.2286	0.31572
26600	26569	1006.55	1.0237	0.51410	2.9574	1.20935	5.2210	0.30884
26700	26669	1006.05	1.0230	0.50830	2.9576	1.21465	5.2134	0.30196
26800	26769	1005.55	1.0223	0.50250	2.9578	1.21995	5.2058	0.29508
26900	26869	1005.05	1.0216	0.49670	2.9580	1.22525	5.1982	0.28820
27000	26969	1004.55	1.0209 - 5	0.49082 - 1	2.9583 - 4	1.23384 + 0	5.1906 - 4	0.28132 - 1
27100	27069	1004.05	1.0202	0.48502	2.9585	1.23914	5.1830	0.27444
27200	27169	1003.55	1.0195	0.47922	2.9587	1.24444	5.1754	0.26756
27300	27269	1003.05	1.0188	0.47342	2.9589	1.24974	5.1678	0.26068
27400	27369	1002.55	1.0181	0.46762	2.9591	1.25504	5.1602	0.25380
27500	27469	1002.05	1.0174	0.46182	2.9593	1.26034	5.1526	0.24692
27600	27569	1001.55	1.0167	0.45602	2.9595	1.26564	5.1450	0.24004
27700	27669	1001.05	1.0160	0.45022	2.9597	1.27094	5.1374	0.23316
27800	27769	1000.55	1.0153	0.44442	2.9599	1.27624	5.1298	0.22628
27900	27869	1000.05	1.0146	0.43862	2.9601	1.28154	5.1222	0.21940
28000	27969	999.55	1.0139 - 5	0.43274 - 1	2.9604 - 4	1.29013 + 0	5.1146 - 4	0.21252 - 1
28100	28069	999.05	1.0132	0.42694	2.9606	1.29543	5.1070	0.20564
28200	28169	998.55	1.0125	0.42114	2.9608	1.30073	5.0994	0.19876
28300	28269	998.05	1.0118	0.41534	2.9610	1.30603	5.0918	0.19188
28400	28369	997.55	1.0111	0.40954	2.9612	1.31133	5.0842	0.18500
28500	28469	997.05	1.0104	0.40374	2.9614	1.31663	5.0766	0.17812
28600	28569	996.55	1.0097	0.39794	2.9616	1.32193	5.0690	0.17124
28700	28669	996.05	1.0090	0.39214	2.9618	1.32723	5.0614	0.16436
28800	28769	995.55	1.0083	0.38634	2.9620	1.33253	5.0538	0.15748
28900	28869	995.05	1.0076	0.38054	2.9622	1.33783	5.0462	0.15060
29000	28969	994.55	1.0069 - 5	0.37466 - 1	2.9625 - 4	1.34642 + 0	5.0386 - 4	0.14372 - 1
29100	29069	994.05	1.0062	0.36886	2.9627	1.35172	5.0310	0.13684
29200	29169	993.55	1.0055	0.36306	2.9629	1.35702	5.0234	0.12996
29300	29269	993.05	1.0048	0.35726	2.9631	1.36232	5.0158	0.12308
29400	29369	992.55	1.0041	0.35146	2.9633	1.36762	5.0082	0.11620
29500	29469	992.05	1.0034	0.34566	2.9635	1.37292	5.0006	0.10932
29600	29569	991.55	1.0027	0.33986	2.9637	1.37822	4.9930	0.10244
29700	29669	991.05	1.0020	0.33406	2.9639	1.38352	4.9854	0.09556
29800	29769	990.55	1.0013	0.32826	2.9641	1.38882	4.9778	0.08868
29900	29869	990.05	1.0006	0.32246	2.9643	1.39412	4.9702	0.08180
30000	29969	989.55	0.9999 - 6	0.31658 - 1	2.9646 - 4	1.40271 + 0	4.9626 - 4	0.07492 - 1
30100	30069	989.05	0.9992	0.31078	2.9648	1.40801	4.9550	0.06804
30200	30169	988.55	0.9985	0.30498	2.9650	1.41331	4.9474	0.06116
30300	30269	988.05	0.9978	0.29918	2.9652	1.41861	4.9398	0.05428
30400	30369	987.55	0.9971	0.29338	2.9654	1.42391	4.9322	0.04740
30500	30469	987.05	0.9964	0.28758	2.9656	1.42921	4.9246	0.04052
30600	30569	986.55	0.9957	0.28178	2.9658	1.43451	4.9170	0.03364
30700	30669	986.05	0.9950	0.27598	2.9660	1.43981	4.9094	0.02676
30800	30769	985.55	0.9943	0.27018	2.9662	1.44511	4.9018	0.01988
30900	30869	985.05	0.9936	0.26438	2.9664	1.45041	4.8942	0.01300

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	$\frac{\mu}{\rho}$, lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	$\frac{\eta}{\rho}$, ft ² sec ⁻¹	$\frac{\eta}{\rho_0}$	$\frac{k}{\rho}$, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{\rho_0}$
31000	31044	996.55	0.0215 - 6	0.25154 - 1	1.5995 - 6	2.20000 + 0	5.2683 - 6	0.01523 - 1
31100	31140	999.91	0.02163	0.25339	1.6093	2.20552	5.2656	0.02210
31200	31247	998.40	0.02071	0.25962	1.6201	2.20247	5.2630	0.02217
31300	31347	995.05	0.02000	0.25843	1.6310	2.20036	5.2608	0.01544
31400	31447	996.61	0.02028	0.22748	1.6419	2.21629	5.2577	0.00911
31500	31540	998.10	0.02054	0.22150	1.6529	2.23327	5.2550	0.00250
31600	31648	997.75	0.02044	0.21552	1.6679	2.25027	5.2524	0.00205
31700	31740	997.91	0.0212	0.20954	1.6769	2.26730	5.2697	0.00951
31800	31849	996.80	0.02040	0.20356	1.6868	2.28435	5.2670	0.00297
31900	31949	996.44	0.02040	0.19757	1.6973	2.30146	5.2644	0.00968
32000	32049	996.61	0.02044 - 6	0.19158 - 1	1.7084 - 6	2.31855 + 0	5.2617 - 6	0.00992 - 1
32100	32149	995.50	0.02024	0.18559	1.7196	2.33560	5.2591	0.00950
32200	32240	995.14	0.02052	0.17960	1.7308	2.35265	5.2564	0.00681
32300	32350	994.71	0.02060	0.17361	1.7423	2.36968	5.2537	0.00375
32400	32450	994.27	0.02060	0.16762	1.7535	2.38672	5.2511	0.00375
32500	32551	993.83	0.02030	0.16163	1.7649	2.40376	5.2484	0.00375
32600	32651	993.40	0.02030	0.15564	1.7763	2.42079	5.2457	0.00375
32700	32751	992.96	0.02030	0.14965	1.7878	2.43783	5.2430	0.00375
32800	32852	992.53	0.02019	0.14366	1.7994	2.45487	5.2403	0.00375
32900	32952	992.09	0.02047	0.13767	1.8109	2.47192	5.2376	0.00375
33000	33052	991.65	0.02019 - 6	0.13168 - 1	1.8224 - 6	2.48896 + 0	5.2351 - 6	0.00375 - 1
33100	33153	991.22	0.02020	0.12569	1.8342	2.50600	5.2324	0.00375
33200	33253	990.78	0.02030	0.11970	1.8459	2.52304	5.2298	0.00375
33300	33353	990.34	0.02030	0.11371	1.8577	2.54008	5.2271	0.00375
33400	33454	989.91	0.02030	0.10772	1.8695	2.55712	5.2244	0.00375
33500	33554	989.47	0.02030	0.10173	1.8813	2.57416	5.2218	0.00375
33600	33654	989.03	0.02030	0.09574	1.8931	2.59120	5.2191	0.00375
33700	33755	988.59	0.02030	0.08975	1.9049	2.60824	5.2164	0.00375
33800	33855	988.16	0.02030	0.08376	1.9167	2.62528	5.2138	0.00375
33900	33955	987.72	0.02030	0.07777	1.9285	2.64232	5.2111	0.00375
34000	34056	987.28	0.02030 - 6	0.07178 - 1	1.9403 - 6	2.65936 + 0	5.2084 - 6	0.00375 - 1
34100	34156	986.84	0.02030	0.06579	1.9521	2.67640	5.2057	0.00375
34200	34256	986.40	0.02030	0.05980	1.9639	2.69344	5.2031	0.00375
34300	34357	985.96	0.02030	0.05381	1.9757	2.71048	5.2004	0.00375
34400	34457	985.52	0.02030	0.04782	1.9875	2.72752	5.1978	0.00375
34500	34557	985.08	0.02030	0.04183	1.9993	2.74456	5.1951	0.00375
34600	34658	984.65	0.02030	0.03584	2.0111	2.76160	5.1924	0.00375
34700	34758	984.21	0.02030	0.02985	2.0229	2.77864	5.1898	0.00375
34800	34859	983.77	0.02030	0.02386	2.0347	2.79568	5.1871	0.00375
34900	34959	983.33	0.02030	0.01787	2.0465	2.81272	5.1844	0.00375
35000	35059	982.89	0.02030 - 6	0.01188 - 1	2.0583 - 6	2.82976 + 0	5.1817 - 6	0.00375 - 1
35100	35160	982.45	0.02030	0.00589	2.0701	2.84680	5.1791	0.00375
35200	35260	982.01	0.02030	0.00589	2.0819	2.86384	5.1764	0.00375
35300	35361	981.57	0.02030	0.00589	2.0937	2.88088	5.1738	0.00375
35400	35461	981.13	0.02030	0.00589	2.1055	2.89792	5.1711	0.00375
35500	35562	980.69	0.02030	0.00589	2.1173	2.91496	5.1684	0.00375
35600	35662	980.25	0.02030	0.00589	2.1291	2.93200	5.1658	0.00375
35700	35763	979.81	0.02030	0.00589	2.1409	2.94904	5.1631	0.00375
35800	35863	979.37	0.02030	0.00589	2.1527	2.96608	5.1604	0.00375
35900	35964	978.93	0.02030	0.00589	2.1645	2.98312	5.1578	0.00375
36000	36064	978.49	0.02030	0.00589	2.1763	3.00016	5.1551	0.00375
36100	36165	978.05	0.02030	0.00589	2.1881	3.01720	5.1524	0.00375
36200	36265	977.61	0.02030	0.00589	2.2000	3.03424	5.1498	0.00375
36300	36366	977.17	0.02030 - 6	0.00589 - 1	2.2118 - 6	3.05128 + 0	5.1471 - 6	0.00375 - 1
36400	36466	976.73	0.02030	0.00589	2.2236	3.06832	5.1444	0.00375
36500	36567	976.29	0.02030	0.00589	2.2354	3.08536	5.1418	0.00375
36600	36667	975.85	0.02030	0.00589	2.2472	3.10240	5.1391	0.00375
36700	36768	975.41	0.02030	0.00589	2.2590	3.11944	5.1364	0.00375
36800	36868	974.97	0.02030	0.00589	2.2708	3.13648	5.1338	0.00375
36900	36969	974.53	0.02030	0.00589	2.2826	3.15352	5.1311	0.00375
37000	37069	974.09	0.02030	0.00589	2.2944	3.17056	5.1284	0.00375
37100	37170	973.65	0.02030	0.00589	2.3062	3.18760	5.1258	0.00375
37200	37270	973.21	0.02030	0.00589	2.3180	3.20464	5.1231	0.00375
37300	37371	972.77	0.02030	0.00589	2.3298	3.22168	5.1204	0.00375
37400	37471	972.33	0.02030	0.00589	2.3416	3.23872	5.1178	0.00375
37500	37572	971.89	0.02030	0.00589	2.3534	3.25576	5.1151	0.00375
37600	37672	971.45	0.02030	0.00589	2.3652	3.27280	5.1124	0.00375
37700	37773	971.01	0.02030	0.00589	2.3770	3.28984	5.1098	0.00375
37800	37873	970.57	0.02030	0.00589	2.3888	3.30688	5.1071	0.00375
37900	37974	970.13	0.02030	0.00589	2.4006	3.32392	5.1044	0.00375
38000	38074	969.69	0.02030	0.00589	2.4124	3.34096	5.1018	0.00375
38100	38175	969.25	0.02030	0.00589	2.4242	3.35800	5.0991	0.00375
38200	38275	968.81	0.02030	0.00589	2.4360	3.37504	5.0964	0.00375
38300	38376	968.37	0.02030	0.00589	2.4478	3.39208	5.0938	0.00375
38400	38476	967.93	0.02030	0.00589	2.4596	3.40912	5.0911	0.00375
38500	38577	967.49	0.02030	0.00589	2.4714	3.42616	5.0884	0.00375
38600	38677	967.05	0.02030	0.00589	2.4832	3.44320	5.0858	0.00375
38700	38778	966.61	0.02030	0.00589	2.4950	3.46024	5.0831	0.00375
38800	38878	966.17	0.02030	0.00589	2.5068	3.47728	5.0804	0.00375
38900	38979	965.73	0.02030	0.00589	2.5186	3.49432	5.0778	0.00375
39000	39079	965.29	0.02030	0.00589	2.5304	3.51136	5.0751	0.00375
39100	39180	964.85	0.02030	0.00589	2.5422	3.52840	5.0724	0.00375
39200	39280	964.41	0.02030	0.00589	2.5540	3.54544	5.0698	0.00375
39300	39381	963.97	0.02030	0.00589	2.5658	3.56248	5.0671	0.00375
39400	39481	963.53	0.02030	0.00589	2.5776	3.57952	5.0644	0.00375
39500	39582	963.09	0.02030	0.00589	2.5894	3.59656	5.0618	0.00375
39600	39682	962.65	0.02030	0.00589	2.6012	3.61360	5.0591	0.00375
39700	39783	962.21	0.02030	0.00589	2.6130	3.63064	5.0564	0.00375
39800	39883	961.77	0.02030	0.00589	2.6248	3.64768	5.0538	0.00375
39900	39984	961.33	0.02030	0.00589	2.6366	3.66472	5.0511	0.00375
40000	40084	960.89	0.02030	0.00589	2.6484	3.68176	5.0484	0.00375
40100	40185	960.45	0.02030	0.00589	2.6602	3.69880	5.0458	0.00375
40200	40285	960.01	0.02030	0.00589	2.6720	3.71584	5.0431	0.00375
40300	40386	959.57	0.02030	0.00589	2.6838	3.73288	5.0404	0.00375
40400	40486	959.13	0.02030	0.00589	2.6956	3.74992	5.0378	0.00375
40500	40587	958.69	0.02030	0.00589	2.7074	3.76696	5.0351	0.00375
40600	40687	958.25	0.02030	0.00589	2.7192	3.78400	5.0324	0.00375
40700	40788	957.81	0.02030	0.00589	2.7310	3.80104	5.0298	0.00375
40800	40888	957.37	0.02030	0.00589	2.7428	3.81808	5.0271	0.00375
40900	40989	956.93	0.02030	0.00589	2.7546	3.83512	5.0244	0.00375
41000	41089	956.49	0.02030	0.00589	2.7664	3.85216	5.0218	0.00375
41100	41190	956.05	0.02030	0.00589	2.7782	3.86920	5.0191	0.00375
41200	41290	955.61	0.02030	0.00589	2.7900	3.88624	5.0164	0.00375
41300	41391	955.17	0.02030	0.00589	2.8018	3.90328	5.0138	0.00375
41400	41491	954.73	0.02030	0.00589	2.8136	3.92032	5.0111	0.00375
41500	41592	954.29	0.02030	0.00589	2.8254	3.93736	5.0084	0.00375
41600	41692	953.85	0.02030	0.00589	2.8372	3.95440	5.0058	0.00375
41700	41793	953.41	0.02030	0.00589	2.8490	3.97144	5.0031	0.00375
41800	41893	952.97	0.02030	0.00589	2.8608	3.98848	5.0004	0.00375
41900	41994	952.53	0.02030	0.00589	2.8726	4.00552	4.9978	0.00375
42000	42094	952.09	0.02030	0.00589	2.8844	4.02256	4.9951	0.00375
42100	42195	951.65	0.02030	0.00589	2.8962	4.03960	4.992	

TABLE III - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C_s , ft/sec	μ , lb/ft ² sec	$\frac{\mu}{\rho_0}$	η , ft ² /sec	$\frac{\eta}{\rho_0}$	k , BTU/ft ² sec ¹ °F	$\frac{k}{k_0}$
31000	30956	990.55	9.9268 - 8	0.25410 - 1	3.5035 - 6	2.20550 + 0	5.2695 - 6	0.03026 - 1
31100	31056	990.71	9.9176	0.25416	3.6043	2.20236	5.2669	0.03173
31200	31153	989.68	9.9105	0.25220	3.8151	2.20020	5.2642	0.03282
31300	31251	989.25	9.9033	0.25025	3.9259	2.20009	5.2616	0.03387
31400	31353	988.82	9.8962	0.25040	4.0368	2.21501	5.2590	0.03492
31500	31452	988.39	9.8890	0.25056	4.0477	2.21995	5.2563	0.03598
31600	31552	987.95	9.8818	0.25050	4.0586	2.22692	5.2536	0.03703
31700	31652	987.52	9.8747	0.25122	4.0696	2.23391	5.2510	0.03808
31800	31752	987.09	9.8675	0.25043	4.0807	2.24093	5.2483	0.03914
31900	31851	986.66	9.8603	0.25049	4.0917	2.24798	5.2457	0.04020
32000	31951	986.22	9.8532	0.25062	4.1029	2.25506	5.2430	0.04126
32100	32051	985.79	9.8460	0.25065	4.1140	2.26216	5.2404	0.04232
32200	32150	985.36	9.8388	0.25058	4.1252	2.26929	5.2377	0.04338
32300	32250	984.92	9.8316	0.25040	4.1365	2.27646	5.2351	0.04444
32400	32352	984.49	9.8244	0.25022	4.1478	2.28365	5.2325	0.04550
32500	32449	984.05	9.8172	0.25004	4.1591	2.29087	5.2299	0.04656
32600	32548	983.62	9.8100	0.25000	4.1705	2.29812	5.2273	0.04762
32700	32649	983.19	9.8028	0.25000	4.1819	2.30539	5.2247	0.04868
32800	32748	982.75	9.7956	0.25000	4.1934	2.31268	5.2221	0.04974
32900	32848	982.32	9.7884	0.25070	4.2049	2.31997	5.2195	0.05080
33000	32948	981.88	9.7812	0.25071	4.2165	2.32732	5.2169	0.05186
33100	33048	981.45	9.7740	0.25072	4.2281	2.33470	5.2143	0.05292
33200	33147	981.01	9.7668	0.25072	4.2397	2.34211	5.2117	0.05398
33300	33247	980.58	9.7596	0.25072	4.2514	2.34955	5.2091	0.05504
33400	33347	980.14	9.7524	0.25072	4.2632	2.35702	5.2065	0.05610
33500	33446	979.70	9.7452	0.25072	4.2750	2.36452	5.2039	0.05716
33600	33546	979.27	9.7380	0.25072	4.2868	2.37205	5.2013	0.05822
33700	33646	978.83	9.7307	0.25072	4.2987	2.37962	5.1987	0.05928
33800	33745	978.40	9.7235	0.25072	4.3106	2.38722	5.1961	0.06034
33900	33845	977.96	9.7163	0.25072	4.3226	2.39485	5.1935	0.06140
34000	33945	977.52	9.7091	0.25072	4.3346	2.40252	5.1909	0.06246
34100	34044	977.09	9.7018	0.25072	4.3466	2.41022	5.1883	0.06352
34200	34144	976.65	9.6946	0.25072	4.3587	2.41795	5.1857	0.06458
34300	34244	976.21	9.6873	0.25072	4.3708	2.42572	5.1831	0.06564
34400	34344	975.77	9.6801	0.25072	4.3829	2.43352	5.1805	0.06670
34500	34444	975.34	9.6728	0.25072	4.3950	2.44135	5.1779	0.06776
34600	34543	974.90	9.6656	0.25072	4.4072	2.44922	5.1753	0.06882
34700	34643	974.46	9.6584	0.25072	4.4194	2.45712	5.1727	0.06988
34800	34742	974.02	9.6511	0.25072	4.4316	2.46505	5.1701	0.07094
34900	34842	973.58	9.6439	0.25072	4.4438	2.47302	5.1675	0.07200
35000	34941	973.14	9.6366	0.25072	4.4561	2.48102	5.1649	0.07306
35100	35041	972.70	9.6294	0.25072	4.4684	2.48905	5.1623	0.07412
35200	35140	972.27	9.6221	0.25072	4.4807	2.49712	5.1597	0.07518
35300	35240	971.83	9.6149	0.25072	4.4930	2.50522	5.1571	0.07624
35400	35339	971.39	9.6077	0.25072	4.5053	2.51335	5.1545	0.07730
35500	35439	970.95	9.6005	0.25072	4.5176	2.52152	5.1519	0.07836
35600	35538	970.51	9.5933	0.25072	4.5300	2.52972	5.1493	0.07942
35700	35637	970.07	9.5861	0.25072	4.5424	2.53795	5.1467	0.08048
35800	35737	969.63	9.5789	0.25072	4.5548	2.54622	5.1441	0.08154
35900	35836	969.19	9.5717	0.25072	4.5672	2.55452	5.1415	0.08260
36000	35936	968.75	9.5645	0.25072	4.5796	2.56285	5.1389	0.08366
36100	36035	968.31	9.5573	0.25072	4.5920	2.57122	5.1363	0.08472
36200	36135	967.87	9.5501	0.25072	4.6044	2.57962	5.1337	0.08578
36300	36234	967.43	9.5429	0.25072	4.6168	2.58805	5.1311	0.08684
36400	36334	966.99	9.5357	0.25072	4.6292	2.59652	5.1285	0.08790
36500	36433	966.55	9.5285	0.25072	4.6416	2.60502	5.1259	0.08896
36600	36533	966.11	9.5213	0.25072	4.6540	2.61355	5.1233	0.09002
36700	36632	965.67	9.5141	0.25072	4.6664	2.62212	5.1207	0.09108
36800	36732	965.23	9.5069	0.25072	4.6788	2.63072	5.1181	0.09214
36900	36831	964.79	9.5000	0.25072	4.6912	2.63935	5.1155	0.09320
37000	36931	964.35	9.4930	0.25072	4.7036	2.64802	5.1129	0.09426
37100	37030	963.91	9.4860	0.25072	4.7160	2.65672	5.1103	0.09532
37200	37130	963.47	9.4790	0.25072	4.7284	2.66545	5.1077	0.09638
37300	37229	963.03	9.4720	0.25072	4.7408	2.67422	5.1051	0.09744
37400	37329	962.59	9.4650	0.25072	4.7532	2.68302	5.1025	0.09850
37500	37428	962.15	9.4580	0.25072	4.7656	2.69185	5.1000	0.09956
37600	37528	961.71	9.4510	0.25072	4.7780	2.70072	5.0974	0.10062
37700	37627	961.27	9.4440	0.25072	4.7904	2.70962	5.0948	0.10168
37800	37727	960.83	9.4370	0.25072	4.8028	2.71855	5.0922	0.10274
37900	37826	960.39	9.4300	0.25072	4.8152	2.72752	5.0896	0.10380
38000	37926	960.00	9.4230	0.25072	4.8276	2.73652	5.0870	0.10486
38100	38025	959.60	9.4160	0.25072	4.8400	2.74555	5.0844	0.10592
38200	38125	959.20	9.4090	0.25072	4.8524	2.75462	5.0818	0.10698
38300	38224	958.80	9.4020	0.25072	4.8648	2.76372	5.0792	0.10804
38400	38324	958.40	9.3950	0.25072	4.8772	2.77285	5.0766	0.10910
38500	38423	958.00	9.3880	0.25072	4.8896	2.78202	5.0740	0.11016
38600	38523	957.60	9.3810	0.25072	4.9020	2.79122	5.0714	0.11122
38700	38622	957.20	9.3740	0.25072	4.9144	2.80045	5.0688	0.11228
38800	38722	956.80	9.3670	0.25072	4.9268	2.80972	5.0662	0.11334
38900	38821	956.40	9.3600	0.25072	4.9392	2.81902	5.0636	0.11440
39000	38921	956.00	9.3530	0.25072	4.9516	2.82835	5.0610	0.11546
39100	39020	955.60	9.3460	0.25072	4.9640	2.83772	5.0584	0.11652
39200	39120	955.20	9.3390	0.25072	4.9764	2.84712	5.0558	0.11758
39300	39219	954.80	9.3320	0.25072	4.9888	2.85655	5.0532	0.11864
39400	39319	954.40	9.3250	0.25072	4.9996	2.86602	5.0506	0.11970
39500	39418	954.00	9.3180	0.25072	5.0120	2.87552	5.0480	0.12076
39600	39518	953.60	9.3110	0.25072	5.0244	2.88505	5.0454	0.12182
39700	39617	953.20	9.3040	0.25072	5.0368	2.89462	5.0428	0.12288
39800	39717	952.80	9.2970	0.25072	5.0492	2.90422	5.0402	0.12394
39900	39816	952.40	9.2900	0.25072	5.0616	2.91385	5.0376	0.12500
40000	39916	952.00	9.2830	0.25072	5.0740	2.92352	5.0350	0.12606
40100	40015	951.60	9.2760	0.25072	5.0864	2.93322	5.0324	0.12712
40200	40115	951.20	9.2690	0.25072	5.0988	2.94295	5.0298	0.12818
40300	40214	950.80	9.2620	0.25072	5.1112	2.95272	5.0272	0.12924
40400	40314	950.40	9.2550	0.25072	5.1236	2.96252	5.0246	0.13030
40500	40413	950.00	9.2480	0.25072	5.1360	2.97235	5.0220	0.13136
40600	40513	949.60	9.2410	0.25072	5.1484	2.98222	5.0194	0.13242
40700	40612	949.20	9.2340	0.25072	5.1608	2.99212	5.0168	0.13348
40800	40712	948.80	9.2270	0.25072	5.1732	3.00205	5.0142	0.13454
40900	40811	948.40	9.2200	0.25072	5.1856	3.01202	5.0116	0.13560
41000	40911	948.00	9.2130	0.25072	5.1980	3.02202	5.0090	0.13666
41100	41010	947.60	9.2060	0.25072	5.2104	3.03205	5.0064	0.13772
41200	41110	947.20	9.1990	0.25072	5.2228	3.04212	5.0038	0.13878
41300	41209	946.80	9.1920	0.25072	5.2352	3.05222	5.0012	0.13984
41400	41309	946.40	9.1850	0.25072	5.2476	3.06235	5.0000	0.14090
41500	41408	946.00	9.1780	0.25072	5.2600	3.07252	5.0000	0.14196
41600	41508	945.60	9.1710	0.25072	5.2724	3.08272	5.0000	0.14302
41700	41607	945.20	9.1640	0.25072	5.2848	3.09295	5.0000	0.14408
41800	41707	944.80	9.1570	0.25072	5.2972	3.10322	5.0000	0.14514
41900	41806	944.40	9.1500	0.25072	5.3096	3.11352	5.0000	0.14620
42000	41906	944.00	9.1430	0.25072	5.3220	3.12385	5.0000	0.14726
42100	42005	943.60	9.1360	0.25072	5.3344	3.13422	5.0000	0.14832
42200	42105	943.20	9.1290	0.25072	5.3468	3.14462	5.0000	0.14938
42300	42204	942.80	9.1220	0.25072	5.3592	3.15505	5.0000	0.15044
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TABLE VI - Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ °F ⁻¹	$\frac{k}{k_0}$
43000	43000	948.00	0.5520 - 6	7.94472 - 1	5.4614 - 6	3.72700 + 0	3.1325 - 6	7.70146 - 1
43200	43200	948.00	0.5520	7.94472	5.4180	3.73391	3.1325	7.70146
43400	43400	948.00	0.5520	7.94472	5.3752	3.74082	3.1325	7.70146
43600	43600	948.00	0.5520	7.94472	5.3329	3.74767	3.1325	7.70146
43800	43800	948.00	0.5520	7.94472	5.2912	3.75456	3.1325	7.70146
44000	44000	948.00	0.5520	7.94472	5.2500	3.76146	3.1325	7.70146
44200	44200	948.00	0.5520	7.94472	5.2094	3.76836	3.1325	7.70146
44400	44400	948.00	0.5520	7.94472	5.1694	3.77526	3.1325	7.70146
44600	44600	948.00	0.5520	7.94472	5.1299	3.78216	3.1325	7.70146
44800	44800	948.00	0.5520	7.94472	5.0911	3.78906	3.1325	7.70146
45000	45000	948.00	0.5520 - 6	7.94472 - 1	5.0520 - 6	3.79596 + 0	3.1325 - 6	7.70146 - 1
45200	45200	948.00	0.5520	7.94472	5.0136	3.80286	3.1325	7.70146
45400	45400	948.00	0.5520	7.94472	4.9758	3.80976	3.1325	7.70146
45600	45600	948.00	0.5520	7.94472	4.9386	3.81666	3.1325	7.70146
45800	45800	948.00	0.5520	7.94472	4.9020	3.82356	3.1325	7.70146
46000	46000	948.00	0.5520	7.94472	4.8659	3.83046	3.1325	7.70146
46200	46200	948.00	0.5520	7.94472	4.8304	3.83736	3.1325	7.70146
46400	46400	948.00	0.5520	7.94472	4.7954	3.84426	3.1325	7.70146
46600	46600	948.00	0.5520	7.94472	4.7609	3.85116	3.1325	7.70146
46800	46800	948.00	0.5520	7.94472	4.7269	3.85806	3.1325	7.70146
47000	47000	948.00	0.5520 - 6	7.94472 - 1	4.6935 - 6	3.86496 + 0	3.1325 - 6	7.70146 - 1
47200	47200	948.00	0.5520	7.94472	4.6606	3.87186	3.1325	7.70146
47400	47400	948.00	0.5520	7.94472	4.6282	3.87876	3.1325	7.70146
47600	47600	948.00	0.5520	7.94472	4.5964	3.88566	3.1325	7.70146
47800	47800	948.00	0.5520	7.94472	4.5651	3.89256	3.1325	7.70146
48000	48000	948.00	0.5520	7.94472	4.5344	3.89946	3.1325	7.70146
48200	48200	948.00	0.5520	7.94472	4.5042	3.90636	3.1325	7.70146
48400	48400	948.00	0.5520	7.94472	4.4746	3.91326	3.1325	7.70146
48600	48600	948.00	0.5520	7.94472	4.4456	3.92016	3.1325	7.70146
48800	48800	948.00	0.5520	7.94472	4.4171	3.92706	3.1325	7.70146
49000	49000	948.00	0.5520	7.94472	4.3891	3.93396	3.1325	7.70146
49200	49200	948.00	0.5520 - 6	7.94472 - 1	4.3616 - 6	3.94086 + 0	3.1325 - 6	7.70146 - 1
49400	49400	948.00	0.5520	7.94472	4.3346	3.94776	3.1325	7.70146
49600	49600	948.00	0.5520	7.94472	4.3082	3.95466	3.1325	7.70146
49800	49800	948.00	0.5520	7.94472	4.2824	3.96156	3.1325	7.70146
50000	50000	948.00	0.5520	7.94472	4.2572	3.96846	3.1325	7.70146
50200	50200	948.00	0.5520	7.94472	4.2326	3.97536	3.1325	7.70146
50400	50400	948.00	0.5520	7.94472	4.2086	3.98226	3.1325	7.70146
50600	50600	948.00	0.5520	7.94472	4.1852	3.98916	3.1325	7.70146
50800	50800	948.00	0.5520	7.94472	4.1624	3.99606	3.1325	7.70146
51000	51000	948.00	0.5520 - 6	7.94472 - 1	4.1401 - 6	3.97589 + 0	3.1325 - 6	7.70146 - 1
51200	51200	948.00	0.5520	7.94472	4.1184	3.98279	3.1325	7.70146
51400	51400	948.00	0.5520	7.94472	4.0973	3.98969	3.1325	7.70146
51600	51600	948.00	0.5520	7.94472	4.0768	3.99659	3.1325	7.70146
51800	51800	948.00	0.5520	7.94472	4.0569	4.00349	3.1325	7.70146
52000	52000	948.00	0.5520	7.94472	4.0376	4.01039	3.1325	7.70146
52200	52200	948.00	0.5520	7.94472	4.0189	4.01729	3.1325	7.70146
52400	52400	948.00	0.5520	7.94472	4.0008	4.02419	3.1325	7.70146
52600	52600	948.00	0.5520	7.94472	3.9833	4.03109	3.1325	7.70146
52800	52800	948.00	0.5520	7.94472	3.9664	4.03799	3.1325	7.70146
53000	53000	948.00	0.5520 - 6	7.94472 - 1	3.9501 - 6	4.02840 + 0	3.1325 - 6	7.70146 - 1
53200	53200	948.00	0.5520	7.94472	3.9344	4.03530	3.1325	7.70146
53400	53400	948.00	0.5520	7.94472	3.9193	4.04220	3.1325	7.70146
53600	53600	948.00	0.5520	7.94472	3.9048	4.04910	3.1325	7.70146
53800	53800	948.00	0.5520	7.94472	3.8909	4.05600	3.1325	7.70146
54000	54000	948.00	0.5520	7.94472	3.8776	4.06290	3.1325	7.70146
54200	54200	948.00	0.5520	7.94472	3.8649	4.06980	3.1325	7.70146
54400	54400	948.00	0.5520	7.94472	3.8528	4.07670	3.1325	7.70146
54600	54600	948.00	0.5520	7.94472	3.8412	4.08360	3.1325	7.70146
54800	54800	948.00	0.5520	7.94472	3.8301	4.09050	3.1325	7.70146
55000	55000	948.00	0.5520 - 6	7.94472 - 1	3.8195 - 6	4.08045 + 0	3.1325 - 6	7.70146 - 1
55200	55200	948.00	0.5520	7.94472	3.8094	4.08735	3.1325	7.70146
55400	55400	948.00	0.5520	7.94472	3.8000	4.09425	3.1325	7.70146
55600	55600	948.00	0.5520	7.94472	3.7912	4.10115	3.1325	7.70146
55800	55800	948.00	0.5520	7.94472	3.7830	4.10805	3.1325	7.70146
56000	56000	948.00	0.5520	7.94472	3.7754	4.11495	3.1325	7.70146
56200	56200	948.00	0.5520	7.94472	3.7684	4.12185	3.1325	7.70146
56400	56400	948.00	0.5520	7.94472	3.7620	4.12875	3.1325	7.70146
56600	56600	948.00	0.5520	7.94472	3.7562	4.13565	3.1325	7.70146
56800	56800	948.00	0.5520	7.94472	3.7510	4.14255	3.1325	7.70146
57000	57000	948.00	0.5520 - 6	7.94472 - 1	3.7463 - 6	4.13840 + 0	3.1325 - 6	7.70146 - 1
57200	57200	948.00	0.5520	7.94472	3.7421	4.14530	3.1325	7.70146
57400	57400	948.00	0.5520	7.94472	3.7384	4.15220	3.1325	7.70146
57600	57600	948.00	0.5520	7.94472	3.7352	4.15910	3.1325	7.70146
57800	57800	948.00	0.5520	7.94472	3.7325	4.16600	3.1325	7.70146
58000	58000	948.00	0.5520	7.94472	3.7303	4.17290	3.1325	7.70146
58200	58200	948.00	0.5520	7.94472	3.7286	4.17980	3.1325	7.70146
58400	58400	948.00	0.5520	7.94472	3.7274	4.18670	3.1325	7.70146
58600	58600	948.00	0.5520	7.94472	3.7266	4.19360	3.1325	7.70146
58800	58800	948.00	0.5520	7.94472	3.7262	4.20050	3.1325	7.70146
59000	59000	948.00	0.5520	7.94472	3.7262	4.20740	3.1325	7.70146

TABLE VI - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft.	M, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho C}$	η , ft ² sec ⁻¹	$\frac{\eta}{\rho}$	k, BTU ft ⁻¹ sec ⁻¹ °F ⁻¹	$\frac{k}{\rho}$
43900	42912	968.08	9.5528 - 4	7.94472 - 1	5.8365 - 4	5.71208 + 0	5.1325 - 6	7.70146 - 1
43200	42111	968.08	9.5528	7.94472	5.8927	5.74779	5.1325	7.70146
42500	41310	968.08	9.5528	7.94472	5.9494	5.78384	5.1325	7.70146
41800	40509	968.08	9.5528	7.94472	6.0064	5.82025	5.1325	7.70146
41100	39708	968.08	9.5528	7.94472	6.0644	5.85698	5.1325	7.70146
40400	38907	968.08	9.5528	7.94472	6.1227	5.89408	5.1325	7.70146
39700	38107	968.08	9.5528	7.94472	6.1816	5.93153	5.1325	7.70146
39000	37306	968.08	9.5528	7.94472	6.2410	5.96934	5.1325	7.70146
38300	36505	968.08	9.5528	7.94472	6.3010	6.00752	5.1325	7.70146
37600	35704	968.08	9.5528	7.94472	6.3618	6.04606	5.1325	7.70146
45000	44093	968.08	9.5528 - 6	7.94472 - 1	6.4228 - 4	6.08498 + 0	5.1325 - 6	7.70146 - 1
44300	43292	968.08	9.5528	7.94472	6.4866	6.12326	5.1325	7.70146
43600	42491	968.08	9.5528	7.94472	6.5510	6.16192	5.1325	7.70146
42900	41690	968.08	9.5528	7.94472	6.6160	6.20097	5.1325	7.70146
42200	40889	968.08	9.5528	7.94472	6.6816	6.24042	5.1325	7.70146
41500	40088	968.08	9.5528	7.94472	6.7479	6.28020	5.1325	7.70146
40800	39287	968.08	9.5528	7.94472	6.8149	6.32033	5.1325	7.70146
40100	38486	968.08	9.5528	7.94472	6.8826	6.36081	5.1325	7.70146
39400	37685	968.08	9.5528	7.94472	6.9510	6.40164	5.1325	7.70146
38700	36884	968.08	9.5528	7.94472	7.0201	6.44282	5.1325	7.70146
47000	46093	968.08	9.5528 - 6	7.94472 - 1	7.0879 - 4	6.48524 + 0	5.1325 - 6	7.70146 - 1
46300	45292	968.08	9.5528	7.94472	7.1559	6.52697	5.1325	7.70146
45600	44491	968.08	9.5528	7.94472	7.2245	6.56911	5.1325	7.70146
44900	43690	968.08	9.5528	7.94472	7.2937	6.61166	5.1325	7.70146
44200	42889	968.08	9.5528	7.94472	7.3637	6.65462	5.1325	7.70146
43500	42088	968.08	9.5528	7.94472	7.4343	6.69799	5.1325	7.70146
42800	41287	968.08	9.5528	7.94472	7.5056	6.74177	5.1325	7.70146
42100	40486	968.08	9.5528	7.94472	7.5775	6.78596	5.1325	7.70146
41400	39685	968.08	9.5528	7.94472	7.6500	6.83056	5.1325	7.70146
40700	38884	968.08	9.5528	7.94472	7.7231	6.87557	5.1325	7.70146
40000	38083	968.08	9.5528	7.94472	7.7968	6.92099	5.1325	7.70146
39300	37282	968.08	9.5528	7.94472	7.8712	6.96682	5.1325	7.70146
38600	36481	968.08	9.5528	7.94472	7.9462	7.01306	5.1325	7.70146
37900	35680	968.08	9.5528	7.94472	8.0219	7.05971	5.1325	7.70146
37200	34879	968.08	9.5528	7.94472	8.0982	7.10677	5.1325	7.70146
36500	34078	968.08	9.5528	7.94472	8.1752	7.15424	5.1325	7.70146
35800	33277	968.08	9.5528	7.94472	8.2528	7.20212	5.1325	7.70146
35100	32476	968.08	9.5528	7.94472	8.3311	7.25041	5.1325	7.70146
34400	31675	968.08	9.5528	7.94472	8.4101	7.29911	5.1325	7.70146
33700	30874	968.08	9.5528	7.94472	8.4898	7.34822	5.1325	7.70146
33000	30073	968.08	9.5528	7.94472	8.5702	7.39774	5.1325	7.70146
32300	29272	968.08	9.5528	7.94472	8.6513	7.44767	5.1325	7.70146
31600	28471	968.08	9.5528	7.94472	8.7331	7.49801	5.1325	7.70146
30900	27670	968.08	9.5528	7.94472	8.8156	7.54876	5.1325	7.70146
30200	26869	968.08	9.5528	7.94472	8.8988	7.59992	5.1325	7.70146
29500	26068	968.08	9.5528	7.94472	8.9827	7.65149	5.1325	7.70146
28800	25267	968.08	9.5528	7.94472	9.0673	7.70347	5.1325	7.70146
28100	24466	968.08	9.5528	7.94472	9.1526	7.75585	5.1325	7.70146
27400	23665	968.08	9.5528	7.94472	9.2386	7.80864	5.1325	7.70146
26700	22864	968.08	9.5528	7.94472	9.3253	7.86184	5.1325	7.70146
26000	22063	968.08	9.5528	7.94472	9.4127	7.91545	5.1325	7.70146
25300	21262	968.08	9.5528	7.94472	9.5008	7.96947	5.1325	7.70146
24600	20461	968.08	9.5528	7.94472	9.5896	8.02390	5.1325	7.70146
23900	19660	968.08	9.5528	7.94472	9.6791	8.07874	5.1325	7.70146
23200	18859	968.08	9.5528	7.94472	9.7693	8.13400	5.1325	7.70146
22500	18058	968.08	9.5528	7.94472	9.8602	8.18967	5.1325	7.70146
21800	17257	968.08	9.5528	7.94472	9.9518	8.24575	5.1325	7.70146
21100	16456	968.08	9.5528	7.94472	1.0049 - 3	8.30224	5.1325	7.70146
20400	15655	968.08	9.5528	7.94472	1.0164	8.35912	5.1325	7.70146
19700	14854	968.08	9.5528	7.94472	1.0284	8.41640	5.1325	7.70146
19000	14053	968.08	9.5528	7.94472	1.0409	8.47408	5.1325	7.70146
18300	13252	968.08	9.5528	7.94472	1.0539	8.53216	5.1325	7.70146
17600	12451	968.08	9.5528	7.94472	1.0674	8.59064	5.1325	7.70146
16900	11650	968.08	9.5528	7.94472	1.0814	8.64952	5.1325	7.70146
16200	10849	968.08	9.5528	7.94472	1.0959	8.70880	5.1325	7.70146
15500	10048	968.08	9.5528	7.94472	1.1109	8.76848	5.1325	7.70146
14800	9247	968.08	9.5528	7.94472	1.1264	8.82856	5.1325	7.70146
14100	8446	968.08	9.5528	7.94472	1.1424	8.88904	5.1325	7.70146
13400	7645	968.08	9.5528	7.94472	1.1589	8.95002	5.1325	7.70146
12700	6844	968.08	9.5528	7.94472	1.1759	9.01140	5.1325	7.70146
12000	6043	968.08	9.5528	7.94472	1.1934	9.07318	5.1325	7.70146
11300	5242	968.08	9.5528	7.94472	1.2114	9.13536	5.1325	7.70146
10600	4441	968.08	9.5528	7.94472	1.2299	9.19794	5.1325	7.70146
9900	3640	968.08	9.5528	7.94472	1.2489	9.26092	5.1325	7.70146
9200	2839	968.08	9.5528	7.94472	1.2684	9.32430	5.1325	7.70146
8500	2038	968.08	9.5528	7.94472	1.2884	9.38808	5.1325	7.70146
7800	1237	968.08	9.5528	7.94472	1.3089	9.45226	5.1325	7.70146
7100	436	968.08	9.5528	7.94472	1.3299	9.51684	5.1325	7.70146
6400	-165	968.08	9.5528	7.94472	1.3514	9.58182	5.1325	7.70146
5700	-766	968.08	9.5528	7.94472	1.3734	9.64720	5.1325	7.70146
5000	-1567	968.08	9.5528	7.94472	1.3959	9.71298	5.1325	7.70146
4300	-2368	968.08	9.5528	7.94472	1.4189	9.77916	5.1325	7.70146
3600	-3169	968.08	9.5528	7.94472	1.4424	9.84574	5.1325	7.70146
2900	-3970	968.08	9.5528	7.94472	1.4664	9.91272	5.1325	7.70146
2200	-4771	968.08	9.5528	7.94472	1.4909	9.98010	5.1325	7.70146
1500	-5572	968.08	9.5528	7.94472	1.5159	10.04788	5.1325	7.70146
800	-6373	968.08	9.5528	7.94472	1.5414	10.11606	5.1325	7.70146
100	-7174	968.08	9.5528	7.94472	1.5674	10.18464	5.1325	7.70146

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , Btu ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
59000	59167	968.08	9.5520 - 6	7.96672 - 1	1.2647 - 3	8.06348 + 0	3.1325 - 6	7.70166 - 1
59200	59359	968.08	9.5520	7.96672	1.2769	8.12117	3.1325	7.70166
59400	59570	968.08	9.5520	7.96672	1.2892	8.17961	3.1325	7.70166
59600	59771	968.08	9.5520	7.96672	1.3017	8.23801	3.1325	7.70166
59800	59972	968.08	9.5520	7.96672	1.3143	8.29678	3.1325	7.70166
60000	60173	968.08	9.5520	7.96672	1.3270	8.35532	3.1325	7.70166
60200	60374	968.08	9.5520	7.96672	1.3396	8.41403	3.1325	7.70166
60400	60575	968.08	9.5520	7.96672	1.3527	8.47304	3.1325	7.70166
60600	60777	968.08	9.5520	7.96672	1.3658	8.53226	3.1325	7.70166
60800	60978	968.08	9.5520	7.96672	1.3790	8.59169	3.1325	7.70166
61000	61179	968.08	9.5520 - 6	7.96672 - 1	1.3923 - 3	8.65134 + 0	3.1325 - 6	7.70166 - 1
61200	61380	968.08	9.5520	7.96672	1.4057	8.71117	3.1325	7.70166
61400	61581	968.08	9.5520	7.96672	1.4193	8.77126	3.1325	7.70166
61600	61783	968.08	9.5520	7.96672	1.4330	8.83156	3.1325	7.70166
61800	61984	968.08	9.5520	7.96672	1.4468	8.89207	3.1325	7.70166
62000	62185	968.08	9.5520	7.96672	1.4608	8.95277	3.1325	7.70166
62200	62386	968.08	9.5520	7.96672	1.4749	9.01366	3.1325	7.70166
62400	62587	968.08	9.5520	7.96672	1.4892	9.07474	3.1325	7.70166
62600	62788	968.08	9.5520	7.96672	1.5036	9.13600	3.1325	7.70166
62800	62990	968.08	9.5520	7.96672	1.5181	9.19744	3.1325	7.70166
63000	63191	968.08	9.5520 - 6	7.96672 - 1	1.5328 - 3	9.25905 + 0	3.1325 - 6	7.70166 - 1
63200	63392	968.08	9.5520	7.96672	1.5476	9.32084	3.1325	7.70166
63400	63593	968.08	9.5520	7.96672	1.5625	9.38281	3.1325	7.70166
63600	63795	968.08	9.5520	7.96672	1.5776	9.44494	3.1325	7.70166
63800	63996	968.08	9.5520	7.96672	1.5928	9.50724	3.1325	7.70166
64000	64197	968.08	9.5520	7.96672	1.6082	9.56970	3.1325	7.70166
64200	64398	968.08	9.5520	7.96672	1.6238	9.63231	3.1325	7.70166
64400	64600	968.08	9.5520	7.96672	1.6395	9.69507	3.1325	7.70166
64600	64801	968.08	9.5520	7.96672	1.6553	9.75798	3.1325	7.70166
64800	65002	968.08	9.5520	7.96672	1.6713	9.82104	3.1325	7.70166
65000	65203	968.08	9.5520 - 6	7.96672 - 1	1.6876 - 3	1.07321 + 1	3.1325 - 6	7.70166 - 1
65200	65404	968.08	9.5520	7.96672	1.7037	1.08350	3.1325	7.70166
65400	65605	968.08	9.5520	7.96672	1.7202	1.09405	3.1325	7.70166
65600	65807	968.08	9.5520	7.96672	1.7368	1.10481	3.1325	7.70166
65800	66008	968.20	9.5540	7.96684	1.7536	1.11581	3.1331	7.70332
66000	66210	968.34	9.5571	7.96831	1.7707	1.12717	3.1341	7.70534
66200	66411	968.47	9.5596	7.97018	1.7880	1.13883	3.1349	7.70737
66400	66612	968.61	9.5616	7.97205	1.8055	1.15022	3.1358	7.70940
66600	66813	968.74	9.5639	7.97393	1.8232	1.16191	3.1366	7.71143
66800	67015	968.88	9.5661	7.97580	1.8415	1.17372	3.1374	7.71345
67000	67216	969.02	9.5686	7.97767	1.8602	1.18563	3.1382	7.71548
67200	67417	969.15	9.5706	7.97954	1.8793	1.19770	3.1391	7.71751
67400	67619	969.29	9.5729	7.98141	1.8985	1.20986	3.1399	7.71953
67600	67820	969.43	9.5751	7.98328	1.9176	1.22215	3.1407	7.72156
67800	68021	969.56	9.5774	7.98515	1.9369	1.23455	3.1415	7.72358
68000	68222	969.70	9.5796	7.98702	1.9564	1.24708	3.1424	7.72561
68200	68424	969.83	9.5810	7.98889	1.9760	1.25973	3.1432	7.72764
68400	68625	969.97	9.5841	7.99076	2.0000	1.27251	3.1440	7.72966
68600	68826	970.10	9.5863	7.99263	2.0211	1.28541	3.1448	7.73169
68800	69028	970.24	9.5886	7.99450	2.0415	1.29844	3.1456	7.73371
69000	69229	970.38	9.5908	7.99636	2.0622	1.31160	3.1465	7.73574
69200	69430	970.51	9.5931	7.99823	2.0831	1.32489	3.1473	7.73777
69400	69632	970.65	9.5953	7.99990	2.1042	1.33831	3.1481	7.73979
69600	69833	970.78	9.5976	7.99997	2.1255	1.35186	3.1489	7.74182
69800	70034	970.92	9.5998	7.99884	2.1471	1.36554	3.1498	7.74384
70000	70236	971.06	9.6021	7.99870	2.1688	1.37936	3.1506	7.74587
70200	70437	971.19	9.6043	7.99757	2.1907	1.39332	3.1514	7.74789
70400	70638	971.33	9.6066	7.99644	2.2129	1.40741	3.1522	7.74992
70600	70840	971.46	9.6088	7.99531	2.2352	1.42164	3.1531	7.75194
70800	71041	971.60	9.6111	7.99417	2.2578	1.43601	3.1539	7.75396
71000	71243	971.73	9.6133	7.99504	2.2807	1.45052	3.1547	7.75599
71200	71444	971.87	9.6155	7.99590	2.3037	1.46517	3.1555	7.75801
71400	71645	972.01	9.6178	7.99677	2.3270	1.47997	3.1564	7.76004
71600	71847	972.14	9.6200	8.00064	2.3505	1.49494	3.1572	7.76206
71800	72048	972.26	9.6223	8.00250	2.3742	1.51000	3.1580	7.76409
72000	72249	972.41	9.6245	8.00437	2.3981	1.52524	3.1588	7.76611
72200	72451	972.55	9.6268	8.00623	2.4223	1.54053	3.1596	7.76813
72400	72652	972.68	9.6290	8.00810	2.4468	1.55596	3.1605	7.77016
72600	72853	972.82	9.6312	8.00996	2.4716	1.57151	3.1613	7.77218
72800	73055	972.95	9.6335	8.01183	2.4963	1.58720	3.1621	7.77420
73000	73256	973.09	9.6357	8.01369	2.5215	1.60303	3.1629	7.77623
73200	73458	973.23	9.6380	8.01555	2.5464	1.61905	3.1638	7.77825
73400	73659	973.36	9.6402	8.01742	2.5726	1.63517	3.1646	7.78027
73600	73861	973.50	9.6424	8.01928	2.5985	1.65146	3.1654	7.78230
73800	74062	973.63	9.6447	8.02114	2.6246	1.66787	3.1662	7.78432
74000	74264	973.77	9.6469	8.02301	2.6510	1.68440	3.1671	7.78634
74200	74465	973.90	9.6492	8.02487	2.6777	1.70103	3.1679	7.78836
74400	74666	974.04	9.6514	8.02673	2.7046	1.71776	3.1687	7.79039
74600	74868	974.17	9.6536	8.02859	2.7318	1.73462	3.1695	7.79241
74800	75069	974.31	9.6559	8.03044	2.7593	1.75162	3.1703	7.79443

TABLE VI.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
59000	58834	948.00	9.5528 - 6	7.94472 - 1	1.2546 - 5	7.97930 + 0	3.1325 - 6	7.70146 - 1
59200	59032	948.00	9.5528	7.94472	1.2667	8.03602	3.1325	7.70146
59400	59231	948.00	9.5528	7.94472	1.2788	8.13339	3.1325	7.70146
59600	59430	948.00	9.5528	7.94472	1.2911	8.21150	3.1325	7.70146
59800	59629	948.00	9.5528	7.94472	1.3035	8.29036	3.1325	7.70146
60000	59828	948.00	9.5528	7.94472	1.3160	8.36998	3.1325	7.70146
60200	60027	948.00	9.5528	7.94472	1.3287	8.45036	3.1325	7.70146
60400	60226	948.00	9.5528	7.94472	1.3416	8.53151	3.1325	7.70146
60600	60424	948.00	9.5528	7.94472	1.3543	8.61366	3.1325	7.70146
60800	60623	948.00	9.5528	7.94472	1.3673	8.69615	3.1325	7.70146
61000	60822	948.00	9.5528 - 6	7.94472 - 1	1.3804 - 3	8.77966 + 0	3.1325 - 6	7.70146 - 1
61200	61021	948.00	9.5528	7.94472	1.3937	8.86396	3.1325	7.70146
61400	61220	948.00	9.5528	7.94472	1.4071	8.94908	3.1325	7.70146
61600	61419	948.00	9.5528	7.94472	1.4206	9.03501	3.1325	7.70146
61800	61617	948.00	9.5528	7.94472	1.4342	9.12176	3.1325	7.70146
62000	61816	948.00	9.5528	7.94472	1.4480	9.20934	3.1325	7.70146
62200	62015	948.00	9.5528	7.94472	1.4619	9.29777	3.1325	7.70146
62400	62214	948.00	9.5528	7.94472	1.4759	9.38706	3.1325	7.70146
62600	62413	948.00	9.5528	7.94472	1.4901	9.47716	3.1325	7.70146
62800	62611	948.00	9.5528	7.94472	1.5044	9.56815	3.1325	7.70146
63000	62810	948.00	9.5528 - 6	7.94472 - 1	1.5189 - 3	9.66001 + 0	3.1325 - 6	7.70146 - 1
63200	63009	948.00	9.5528	7.94472	1.5334	9.75274	3.1325	7.70146
63400	63208	948.00	9.5528	7.94472	1.5482	9.84639	3.1325	7.70146
63600	63407	948.00	9.5528	7.94472	1.5630	9.94091	3.1325	7.70146
63800	63605	948.00	9.5528	7.94472	1.5780	1.00363 + 1	3.1325	7.70146
64000	63804	948.00	9.5528	7.94472	1.5932	1.01827	3.1325	7.70146
64200	64003	948.00	9.5528	7.94472	1.6085	1.03300	3.1325	7.70146
64400	64202	948.00	9.5528	7.94472	1.6239	1.04782	3.1325	7.70146
64600	64400	948.00	9.5528	7.94472	1.6395	1.06273	3.1325	7.70146
64800	64599	948.00	9.5528	7.94472	1.6552	1.07776	3.1325	7.70146
65000	64798	948.00	9.5528 - 6	7.94472 - 1	1.6711 - 3	1.09285 + 1	3.1325 - 6	7.70146 - 1
65200	64997	948.00	9.5528	7.94472	1.6872	1.07305	3.1325	7.70146
65400	65196	948.00	9.5528	7.94472	1.7034	1.08335	3.1325	7.70146
65600	65394	948.00	9.5528	7.94472	1.7197	1.09375	3.1325	7.70146
65800	65593	948.00	9.5528	7.94472	1.7362	1.10426	3.1325	7.70146
66000	65792	948.19	9.5528	7.94472	1.7537	1.11536	3.1325	7.70146
66200	65991	948.33	9.5528	7.94472	1.7714	1.12662	3.1325	7.70146
66400	66189	948.47	9.5528	7.94472	1.7893	1.13801	3.1325	7.70146
66600	66388	948.60	9.5528	7.94472	1.8074	1.14951	3.1325	7.70146
66800	66587	948.74	9.5528	7.94472	1.8257	1.16113	3.1325	7.70146
67000	66785	948.87	9.5528 - 6	7.94472 - 1	1.8441 - 3	1.17286 + 1	3.1325 - 6	7.70146 - 1
67200	66984	949.01	9.5528	7.94472	1.8627	1.18470	3.1325	7.70146
67400	67183	949.14	9.5528	7.94472	1.8815	1.19666	3.1325	7.70146
67600	67382	949.28	9.5528	7.94472	1.9005	1.20873	3.1325	7.70146
67800	67581	949.41	9.5528	7.94472	1.9197	1.22093	3.1325	7.70146
68000	67779	949.55	9.5528	7.94472	1.9390	1.23324	3.1325	7.70146
68200	67978	949.68	9.5528	7.94472	1.9584	1.24566	3.1325	7.70146
68400	68176	949.82	9.5528	7.94472	1.9783	1.25823	3.1325	7.70146
68600	68375	949.95	9.5528	7.94472	1.9983	1.27091	3.1325	7.70146
68800	68574	950.09	9.5528	7.94472	2.0184	1.28371	3.1325	7.70146
69000	68772	950.22	9.5528 - 6	7.94472 - 1	2.0387 - 3	1.29664 + 1	3.1325 - 6	7.70146 - 1
69200	68971	950.36	9.5528	7.94472	2.0592	1.30969	3.1325	7.70146
69400	69170	950.49	9.5528	7.94472	2.0800	1.32287	3.1325	7.70146
69600	69368	950.63	9.5528	7.94472	2.1009	1.33618	3.1325	7.70146
69800	69567	950.76	9.5528	7.94472	2.1220	1.34962	3.1325	7.70146
70000	69766	950.90	9.5528	7.94472	2.1434	1.36319	3.1325	7.70146
70200	69964	951.03	9.5528	7.94472	2.1649	1.37690	3.1325	7.70146
70400	70163	951.17	9.5528	7.94472	2.1867	1.39073	3.1325	7.70146
70600	70362	951.30	9.5528	7.94472	2.2086	1.40470	3.1325	7.70146
70800	70560	951.44	9.5528	7.94472	2.2308	1.41881	3.1325	7.70146
71000	70759	951.57	9.5528 - 6	7.94472 - 1	2.2532 - 3	1.43304 + 1	3.1325 - 6	7.70146 - 1
71200	70958	951.71	9.5528	7.94472	2.2758	1.44746	3.1325	7.70146
71400	71156	951.84	9.5528	7.94472	2.2987	1.46196	3.1325	7.70146
71600	71355	951.98	9.5528	7.94472	2.3217	1.47663	3.1325	7.70146
71800	71554	952.11	9.5528	7.94472	2.3450	1.49144	3.1325	7.70146
72000	71752	952.24	9.5528	7.94472	2.3685	1.50639	3.1325	7.70146
72200	71951	952.38	9.5528	7.94472	2.3922	1.52148	3.1325	7.70146
72400	72150	952.51	9.5528	7.94472	2.4162	1.53673	3.1325	7.70146
72600	72348	952.65	9.5528	7.94472	2.4404	1.55212	3.1325	7.70146
72800	72547	952.78	9.5528	7.94472	2.4648	1.56766	3.1325	7.70146
73000	72745	952.92	9.5528 - 6	7.94472 - 1	2.4895 - 3	1.58335 + 1	3.1325 - 6	7.70146 - 1
73200	72944	953.05	9.5528	7.94472	2.5144	1.59920	3.1325	7.70146
73400	73143	953.19	9.5528	7.94472	2.5394	1.61519	3.1325	7.70146
73600	73341	953.32	9.5528	7.94472	2.5645	1.63135	3.1325	7.70146
73800	73540	953.46	9.5528	7.94472	2.5906	1.64766	3.1325	7.70146
74000	73738	953.59	9.5528	7.94472	2.6165	1.66415	3.1325	7.70146
74200	73937	953.73	9.5528	7.94472	2.6427	1.68074	3.1325	7.70146
74400	74135	953.86	9.5528	7.94472	2.6691	1.69754	3.1325	7.70146
74600	74334	953.99	9.5528	7.94472	2.6957	1.71450	3.1325	7.70146
74800	74533	954.13	9.5528	7.94472	2.7226	1.73161	3.1325	7.70146

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
75000	75271	974.44	9.6581 - 4	0.03252 - 1	2.7070 - 5	1.77255 + 1	3.1742 - 6	7.79045 - 1
75200	75472	974.58	9.6604	0.03418	2.8150	1.79034	3.1720	7.79848
75400	75673	974.72	9.6626	0.03604	2.8633	1.80834	3.1728	7.80050
75600	75875	974.85	9.6648	0.03790	2.8718	1.82650	3.1734	7.80252
75800	76077	974.99	9.6671	0.03976	2.9006	1.84483	3.1745	7.80454
76000	76278	975.12	9.6693	0.04162	2.9297	1.86334	3.1753	7.80656
76200	76479	975.24	9.6715	0.04349	2.9591	1.88203	3.1761	7.80858
76400	76681	975.37	9.6738	0.04535	2.9888	1.90091	3.1769	7.81061
76600	76882	975.51	9.6760	0.04721	3.0188	1.91997	3.1777	7.81263
76800	77084	975.64	9.6783	0.04907	3.0490	1.93921	3.1786	7.81465
77000	77285	975.78	9.6805	0.05093	3.0794	1.95864	3.1794	7.81667
77200	77487	975.91	9.6827	0.05278	3.1104	1.97824	3.1802	7.81869
77400	77688	976.07	9.6850	0.05464	3.1414	1.99800	3.1810	7.82071
77600	77890	976.20	9.6872	0.05650	3.1730	2.01800	3.1819	7.82273
77800	78091	976.34	9.6894	0.05836	3.2048	2.03828	3.1827	7.82475
78000	78293	976.47	9.6917	0.06022	3.2367	2.05887	3.1835	7.82677
78200	78494	976.61	9.6939	0.06208	3.2692	2.07927	3.1843	7.82879
78400	78696	976.74	9.6961	0.06394	3.3019	2.10004	3.1851	7.83081
78600	78897	976.88	9.6984	0.06579	3.3350	2.12106	3.1860	7.83283
78800	79099	977.01	9.7006	0.06765	3.3683	2.14226	3.1868	7.83485
79000	79300	977.15	9.7028	0.06951	3.4019	2.16366	3.1876	7.83687
79200	79502	977.28	9.7051	0.07137	3.4359	2.18528	3.1884	7.83889
79400	79703	977.42	9.7073	0.07322	3.4702	2.20710	3.1893	7.84091
79600	79905	977.55	9.7095	0.07508	3.5049	2.22916	3.1901	7.84293
79800	80107	977.69	9.7118	0.07694	3.5399	2.25139	3.1909	7.84495
80000	80308	977.82	9.7140	0.07879	3.5752	2.27385	3.1917	7.84697
80200	80510	977.96	9.7162	0.08065	3.6109	2.29654	3.1925	7.84899
80400	80711	978.09	9.7185	0.08251	3.6469	2.31946	3.1934	7.85101
80600	80913	978.23	9.7207	0.08436	3.6832	2.34256	3.1942	7.85303
80800	81114	978.36	9.7229	0.08622	3.7199	2.36599	3.1950	7.85505
81000	81316	978.50	9.7252	0.08807	3.7570	2.38969	3.1958	7.85706
81200	81517	978.63	9.7274	0.08993	3.7944	2.41322	3.1966	7.85908
81400	81719	978.76	9.7296	0.09178	3.8322	2.43733	3.1975	7.86110
81600	81921	978.90	9.7319	0.09364	3.8704	2.46159	3.1983	7.86312
81800	82122	979.03	9.7341	0.09549	3.9089	2.48610	3.1991	7.86514
82000	82324	979.17	9.7363	0.09734	3.9478	2.51083	3.1999	7.86716
82200	82525	979.30	9.7385	0.09920	3.9871	2.53581	3.2007	7.86917
82400	82727	979.44	9.7408	0.10105	4.0267	2.56103	3.2016	7.87119
82600	82928	979.57	9.7430	0.10291	4.0668	2.58649	3.2024	7.87321
82800	83130	979.71	9.7452	0.10476	4.1072	2.61220	3.2032	7.87523
83000	83332	979.84	9.7475	0.10661	4.1480	2.63814	3.2040	7.87724
83200	83533	979.98	9.7497	0.10846	4.1892	2.66437	3.2048	7.87926
83400	83735	980.11	9.7519	0.11032	4.2308	2.69083	3.2057	7.88128
83600	83937	980.25	9.7541	0.11217	4.2728	2.71754	3.2065	7.88330
83800	84138	980.38	9.7564	0.11402	4.3152	2.74452	3.2073	7.88531
84000	84340	980.51	9.7586	0.11587	4.3580	2.77175	3.2081	7.88733
84200	84541	980.65	9.7608	0.11773	4.4013	2.79925	3.2090	7.88935
84400	84743	980.78	9.7630	0.11958	4.4449	2.82701	3.2098	7.89136
84600	84945	980.92	9.7653	0.12143	4.4890	2.85504	3.2106	7.89338
84800	85146	981.05	9.7675	0.12328	4.5335	2.88334	3.2114	7.89540
85000	85348	981.19	9.7697	0.12513	4.5784	2.91191	3.2122	7.89741
85200	85550	981.32	9.7719	0.12698	4.6238	2.94076	3.2131	7.89943
85400	85751	981.46	9.7742	0.12883	4.6694	2.96988	3.2139	7.90145
85600	85953	981.59	9.7764	0.13068	4.7158	2.99929	3.2147	7.90346
85800	86154	981.72	9.7786	0.13253	4.7625	3.02897	3.2155	7.90548
86000	86356	981.86	9.7808	0.13438	4.8096	3.05895	3.2163	7.90749
86200	86558	981.99	9.7831	0.13623	4.8572	3.08921	3.2172	7.90951
86400	86759	982.13	9.7853	0.13808	4.9052	3.11976	3.2180	7.91153
86600	86961	982.26	9.7875	0.13993	4.9537	3.15061	3.2188	7.91354
86800	87163	982.40	9.7897	0.14178	5.0027	3.18175	3.2196	7.91556
87000	87364	982.53	9.7920	0.14363	5.0521	3.21310	3.2204	7.91757
87200	87566	982.66	9.7942	0.14548	5.1020	3.24494	3.2213	7.91959
87400	87768	982.80	9.7964	0.14732	5.1524	3.27699	3.2221	7.92160
87600	87970	982.93	9.7986	0.14917	5.2033	3.30934	3.2229	7.92362
87800	88171	983.07	9.8008	0.15102	5.2547	3.34201	3.2237	7.92563
88000	88373	983.20	9.8031	0.15287	5.3065	3.37499	3.2245	7.92765
88200	88575	983.33	9.8053	0.15471	5.3589	3.40829	3.2253	7.92966
88400	88776	983.47	9.8075	0.15656	5.4117	3.44190	3.2262	7.93168
88600	88978	983.60	9.8097	0.15841	5.4651	3.47584	3.2270	7.93369
88800	89180	983.74	9.8120	0.16025	5.5190	3.51010	3.2278	7.93570
89000	89381	983.87	9.8142	0.16210	5.5733	3.54469	3.2286	7.93772
89200	89583	984.00	9.8164	0.16395	5.6283	3.57962	3.2294	7.93973
89400	89785	984.14	9.8186	0.16579	5.6837	3.61487	3.2303	7.94175
89600	89987	984.27	9.8208	0.16764	5.7397	3.65047	3.2311	7.94376
89800	90188	984.41	9.8230	0.16948	5.7962	3.68640	3.2319	7.94577
90000	90390	984.54	9.8253	0.17133	5.8532	3.72268	3.2327	7.94779
90200	90592	984.67	9.8275	0.17317	5.9108	3.75931	3.2335	7.94980
90400	90794	984.81	9.8297	0.17502	5.9689	3.79628	3.2344	7.95181
90600	90995	984.94	9.8319	0.17686	6.0274	3.83361	3.2352	7.95383
90800	91197	985.08	9.8341	0.17871	6.0869	3.87130	3.2360	7.95584

TABLE VI.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	K, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{K}{K_0}$
75000	74731	974.26	9.6551 - 6	0.02902 - 1	2.7608 - 3	1.76869 + 1	3.1701 - 6	7.79574 - 1
75200	74930	974.50	9.6573	0.03164	2.7772	1.76834	3.1709	7.79574
75400	75128	974.53	9.6596	0.03351	2.8009	1.76806	3.1717	7.79773
75600	75327	974.67	9.6618	0.03536	2.8329	1.80115	3.1725	7.79974
75800	75525	974.80	9.6640	0.03721	2.8611	1.81971	3.1733	7.80177
76000	75724	974.93	9.6662	0.03906	2.8997	1.83784	3.1741	7.80377
76200	75923	975.07	9.6684	0.04090	2.9184	1.85615	3.1750	7.80579
76400	76121	975.20	9.6707	0.04275	2.9475	1.87464	3.1758	7.80779
76600	76320	975.34	9.6729	0.04460	2.9769	1.89330	3.1766	7.80979
76800	76518	975.47	9.6751	0.04644	3.0065	1.91215	3.1774	7.81180
77000	76717	975.61	9.6773	0.04829	3.0364	1.93117 + 1	3.1782 - 6	7.81381 - 1
77200	76915	975.74	9.6795	0.05014	3.0664	1.95030	3.1790	7.81581
77400	77114	975.87	9.6818	0.05198	3.0971	1.96978	3.1799	7.81782
77600	77312	976.01	9.6840	0.05383	3.1279	1.98934	3.1807	7.81982
77800	77511	976.14	9.6862	0.05567	3.1590	2.00913	3.1815	7.82183
78000	77709	976.28	9.6884	0.05752	3.1904	2.02910	3.1823	7.82384
78200	77908	976.41	9.6906	0.05937	3.2220	2.04925	3.1831	7.82584
78400	78106	976.54	9.6929	0.06121	3.2548	2.06960	3.1839	7.82785
78600	78305	976.68	9.6951	0.06305	3.2863	2.09014	3.1848	7.82985
78800	78503	976.81	9.6973	0.06490	3.3190	2.11089	3.1856	7.83184
79000	78702	976.95	9.6995	0.06674	3.3519	2.13183 + 1	3.1864 - 6	7.83384 - 1
79200	78900	977.08	9.7017	0.06858	3.3851	2.15297	3.1872	7.83587
79400	79099	977.21	9.7039	0.07043	3.4187	2.17432	3.1880	7.83797
79600	79297	977.35	9.7062	0.07227	3.4526	2.19587	3.1888	7.83997
79800	79496	977.48	9.7084	0.07411	3.4868	2.21763	3.1896	7.84198
80000	79694	977.62	9.7106	0.07594	3.5215	2.23960	3.1905	7.84398
80200	79893	977.75	9.7128	0.07778	3.5562	2.26178	3.1913	7.84599
80400	80091	977.88	9.7150	0.07964	3.5914	2.28417	3.1921	7.84799
80600	80290	978.02	9.7172	0.08148	3.6270	2.30678	3.1929	7.84999
80800	80488	978.15	9.7195	0.08332	3.6628	2.32960	3.1937	7.85198
81000	80687	978.28	9.7217	0.08516	3.6991	2.35265 + 1	3.1945 - 6	7.85399 - 1
81200	80885	978.42	9.7239	0.08701	3.7357	2.37591	3.1953	7.85599
81400	81083	978.55	9.7261	0.08885	3.7726	2.39940	3.1962	7.85799
81600	81282	978.69	9.7283	0.09069	3.8099	2.42311	3.1970	7.85999
81800	81480	978.82	9.7305	0.09253	3.8475	2.44705	3.1978	7.86199
82000	81679	978.95	9.7327	0.09437	3.8855	2.47122	3.1986	7.86392
82200	81877	979.09	9.7349	0.09621	3.9239	2.49562	3.1994	7.86592
82400	82076	979.22	9.7372	0.09805	3.9626	2.52026	3.2002	7.86792
82600	82274	979.35	9.7394	0.09989	4.0017	2.54513	3.2011	7.86992
82800	82473	979.49	9.7416	0.10172	4.0412	2.57026	3.2019	7.87192
83000	82671	979.62	9.7438	0.10356	4.0811	2.59558 + 1	3.2027 - 6	7.87393 - 1
83200	82869	979.75	9.7460	0.10540	4.1213	2.62117	3.2035	7.87593
83400	83068	979.89	9.7482	0.10724	4.1619	2.64701	3.2043	7.87793
83600	83266	980.02	9.7504	0.10908	4.2029	2.67309	3.2051	7.87993
83800	83465	980.15	9.7526	0.11092	4.2443	2.69945	3.2059	7.88193
84000	83663	980.29	9.7548	0.11275	4.2861	2.72601	3.2067	7.88393
84200	83861	980.42	9.7570	0.11459	4.3283	2.75285	3.2074	7.88593
84400	84060	980.55	9.7593	0.11643	4.3709	2.77994	3.2084	7.88793
84600	84258	980.69	9.7615	0.11826	4.4139	2.80729	3.2092	7.88993
84800	84457	980.82	9.7637	0.12010	4.4573	2.83491	3.2100	7.89193
85000	84655	980.95	9.7659	0.12194	4.5012	2.86278 + 1	3.2108 - 6	7.89394 - 1
85200	84853	981.09	9.7681	0.12377	4.5454	2.89093	3.2116	7.89594
85400	85052	981.22	9.7703	0.12561	4.5901	2.91934	3.2124	7.89793
85600	85250	981.35	9.7725	0.12744	4.6352	2.94802	3.2133	7.89994
85800	85448	981.49	9.7747	0.12928	4.6807	2.97697	3.2141	7.90193
86000	85647	981.62	9.7769	0.13111	4.7267	3.00627	3.2149	7.90393
86200	85845	981.75	9.7791	0.13295	4.7731	3.03571	3.2157	7.90593
86400	86043	981.89	9.7813	0.13478	4.8199	3.06550	3.2165	7.90793
86600	86242	982.02	9.7835	0.13662	4.8672	3.09558	3.2173	7.90993
86800	86440	982.15	9.7857	0.13845	4.9149	3.12594	3.2181	7.91193
87000	86639	982.29	9.7879	0.14028	4.9631	3.15659 + 1	3.2189 - 6	7.91393 - 1
87200	86837	982.42	9.7901	0.14212	5.0118	3.18753	3.2198	7.91593
87400	87035	982.55	9.7923	0.14395	5.0609	3.21874	3.2206	7.91793
87600	87234	982.69	9.7946	0.14578	5.1105	3.25029	3.2214	7.91992
87800	87432	982.82	9.7968	0.14762	5.1605	3.28212	3.2222	7.92192
88000	87630	982.95	9.7990	0.14945	5.2110	3.31424	3.2230	7.92392
88200	87829	983.09	9.8012	0.15128	5.2620	3.34669	3.2238	7.92592
88400	88027	983.22	9.8034	0.15311	5.3135	3.37944	3.2246	7.92792
88600	88225	983.35	9.8056	0.15494	5.3655	3.41250	3.2255	7.92991
88800	88423	983.48	9.8078	0.15678	5.4180	3.44584	3.2263	7.93191
89000	88622	983.62	9.8100	0.15861	5.4709	3.47955 + 1	3.2271 - 6	7.93391 - 1
89200	88820	983.75	9.8122	0.16044	5.5244	3.51354	3.2279	7.93591
89400	89018	983.88	9.8144	0.16227	5.5784	3.54789	3.2287	7.93790
89600	89217	984.02	9.8166	0.16410	5.6328	3.58254	3.2295	7.93990
89800	89415	984.15	9.8188	0.16593	5.6878	3.61752	3.2303	7.94190
90000	89613	984.28	9.8210	0.16776	5.7434	3.65283	3.2311	7.94389
90200	89812	984.41	9.8232	0.16959	5.7994	3.68844	3.2319	7.94589
90400	90010	984.55	9.8254	0.17142	5.8560	3.72434	3.2328	7.94789
90600	90208	984.68	9.8276	0.17325	5.9131	3.76079	3.2336	7.94988
90800	90406	984.81	9.8298	0.17508	5.9708	3.79746	3.2344	7.95188

TABLE VI.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	$\frac{\mu}{\rho}$, lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	$\frac{\eta}{\rho}$, ft ² sec ⁻¹	$\frac{\eta}{\rho_0}$	$\frac{k}{\rho}$, BTU hr ⁻¹ ft ⁻¹ (°F) ⁻¹	$\frac{k}{\rho_0}$
91000	91599	985.21	0.8244 - 6	0.18055 - 1	0.1467 - 3	3.90934 + 1	3.2348 - 6	7.95785 - 1
91200	91601	985.34	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
91400	91602	985.48	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
91600	91604	985.61	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
91800	91606	985.74	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
92000	91608	985.88	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
92200	91610	986.01	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
92400	91612	986.15	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
92600	91614	986.29	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
92800	91616	986.42	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
93000	91618	986.56	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
93200	91620	986.69	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
93400	91622	986.83	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
93600	91624	986.96	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
93800	91626	987.10	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
94000	91628	987.23	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
94200	91630	987.37	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
94400	91632	987.50	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
94600	91634	987.64	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
94800	91636	987.77	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
95000	91638	987.91	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
95200	91640	988.04	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
95400	91642	988.18	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
95600	91644	988.31	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
95800	91646	988.45	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
96000	91648	988.58	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
96200	91650	988.72	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
96400	91652	988.85	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
96600	91654	988.99	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
96800	91656	989.12	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
97000	91658	989.26	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
97200	91660	989.39	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
97400	91662	989.53	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
97600	91664	989.66	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
97800	91666	989.80	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
98000	91668	989.93	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
98200	91670	990.07	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
98400	91672	990.20	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
98600	91674	990.34	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
98800	91676	990.47	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
99000	91678	990.61	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
99200	91680	990.74	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
99400	91682	990.88	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
99600	91684	991.01	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
99800	91686	991.15	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
100000	91688	991.28	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
100200	91690	991.42	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
100400	91692	991.55	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
100600	91694	991.69	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
100800	91696	991.82	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
101000	91698	991.96	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
101200	91700	992.09	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
101400	91702	992.23	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
101600	91704	992.36	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
101800	91706	992.50	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
102000	91708	992.63	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
102200	91710	992.77	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
102400	91712	992.90	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
102600	91714	993.04	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
102800	91716	993.17	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
103000	91718	993.31	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
103200	91720	993.44	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
103400	91722	993.58	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
103600	91724	993.71	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
103800	91726	993.85	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
104000	91728	993.98	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
104200	91730	994.12	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
104400	91732	994.25	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
104600	91734	994.39	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
104800	91736	994.52	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
105000	91738	994.66	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
105200	91740	994.79	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
105400	91742	994.93	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
105600	91744	995.06	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
105800	91746	995.20	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
106000	91748	995.33	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
106200	91750	995.47	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
106400	91752	995.60	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
106600	91754	995.74	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
106800	91756	995.87	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
107000	91758	996.01	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
107200	91760	996.14	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
107400	91762	996.28	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
107600	91764	996.41	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
107800	91766	996.55	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
108000	91768	996.68	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
108200	91770	996.82	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
108400	91772	996.95	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
108600	91774	997.09	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
108800	91776	997.22	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
109000	91778	997.36	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
109200	91780	997.49	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
109400	91782	997.63	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
109600	91784	997.76	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
109800	91786	997.90	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785
110000	91788	998.03	0.8244	0.18055	0.1467	3.90934	3.2348	7.95785

TABLE XII.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
91000	90405	994.94	9.9329 - 6	0.17691 - 1	6.0299 - 3	3.09647 + 1	3.2362 - 6	7.95567 - 1
91200	90603	995.06	9.9342	0.17873	6.0377	3.07184	3.2360	7.95587
91400	91001	995.21	9.9354	0.18056	6.1570	3.09954	3.2360	7.95706
91600	91199	995.36	9.9366	0.18239	6.2949	3.09763	3.2376	7.95966
91800	91398	995.50	9.9408	0.18422	6.2673	3.08407	3.2384	7.96185
92000	91596	995.61	9.9430	0.18606	6.3283	3.02466	3.2393	7.96395
92200	91794	995.74	9.9452	0.18787	6.3899	3.06403	3.2691	7.96504
92400	91992	995.87	9.9474	0.18970	6.4521	3.10356	3.2609	7.96704
92600	92191	996.01	9.9496	0.19153	6.5148	3.16367	3.2617	7.96903
92800	92389	996.16	9.9518	0.19335	6.5781	3.18375	3.2625	7.97103
93000	92587	996.27	9.9539	0.19518	6.6421	3.22441 + 1	3.2633	7.97302
93200	92785	996.40	9.9561	0.19700	6.7066	3.26568	3.2641	7.97502
93400	92984	996.54	9.9583	0.19883	6.7717	3.30609	3.2649	7.97701
93600	93182	996.67	9.9605	0.20065	6.8375	3.34671	3.2657	7.97900
93800	93380	996.80	9.9627	0.20248	6.9039	3.38993	3.2666	7.98100
94000	93578	996.93	9.9649	0.20430	6.9709	3.43354	3.2674	7.98300
94200	93776	997.07	9.9671	0.20611	7.0395	3.47658	3.2682	7.98500
94400	93975	997.20	9.9693	0.20793	7.1086	3.51998	3.2690	7.98700
94600	94173	997.33	9.9715	0.20976	7.1757	3.56360	3.2698	7.98900
94800	94371	997.46	9.9737	0.21160	7.2433	3.60664	3.2706	7.99100
95000	94569	997.59	9.9759	0.21343	7.3155	3.64970 + 1	3.2714	7.99300
95200	94767	997.73	9.9781	0.21525	7.3863	3.69278	3.2722	7.99500
95400	94964	997.86	9.9803	0.21707	7.4579	3.73527	3.2730	7.99700
95600	95162	997.99	9.9825	0.21890	7.5301	3.77920	3.2739	7.99900
95800	95360	998.12	9.9847	0.22072	7.6030	3.82354	3.2747	8.00100
96000	95558	998.26	9.9869	0.22254	7.6765	3.86835	3.2755	8.00300
96200	95756	998.39	9.9890	0.22436	7.7506	3.91350	3.2763	8.00500
96400	95954	998.52	9.9912	0.22618	7.8254	3.95926	3.2771	8.00700
96600	96152	998.65	9.9934	0.22801	7.9016	4.00558	3.2779	8.00900
96800	96350	998.78	9.9956	0.22983	7.9778	4.05236	3.2787	8.01100
97000	96548	998.92	9.9978	0.23165	8.0549	4.12298 + 1	3.2795	8.01300
97200	96746	999.05	9.9999	0.23347	8.1327	4.17247	3.2803	8.01500
97400	96944	999.18	9.9922	0.23529	8.2112	4.22242	3.2811	8.01700
97600	97142	999.31	9.9944	0.23711	8.2905	4.27284	3.2819	8.01900
97800	97340	999.45	9.9966	0.23893	8.3705	4.32376	3.2827	8.02100
98000	97538	999.58	9.9987	0.24075	8.4513	4.37510	3.2835	8.02300
98200	97736	999.71	9.9909	0.24257	8.5320	4.42695	3.2843	8.02500
98400	97934	999.84	9.9931	0.24439	8.6151	4.47920	3.2851	8.02700
98600	98132	999.97	9.9953	0.24621	8.6982	4.53211	3.2859	8.02900
98800	98330	999.10	9.9975	0.24803	8.7820	4.58543	3.2867	8.03100
99000	98528	999.24	9.9997	0.24985	8.8666	4.63926 + 1	3.2875	8.03300
99200	98726	999.37	9.9919	0.25167	8.9520	4.69358	3.2883	8.03500
99400	98924	999.50	9.9941	0.25349	9.0382	4.74830	3.2891	8.03700
99600	99122	999.63	9.9963	0.25530	9.1252	4.80372	3.2899	8.03900
99800	99320	999.76	9.9985	0.25712	9.2130	4.85987	3.2907	8.04100
100000	99518	999.89	9.9907	0.25894	9.3017	4.91595	3.2915	8.04300
100200	99716	999.10	9.9929	0.26075	9.3912	4.97285	3.2923	8.04500
100400	99914	999.16	9.9950	0.26257	9.4815	5.03020	3.2931	8.04700
100600	100112	999.29	9.9972	0.26439	9.5724	5.08825	3.2939	8.04900
100800	100310	999.42	9.9993	0.26620	9.6646	5.14676	3.2947	8.05100
101000	100508	999.55	9.9915	0.26802	9.7576	5.20581 + 1	3.2955	8.05300
101200	100706	999.69	9.9937	0.26984	9.8512	5.26542	3.2963	8.05500
101400	100904	999.82	9.9959	0.27165	9.9457	5.32557	3.2971	8.05700
101600	101102	999.95	9.9981	0.27347	1.0061 - 2	5.38629	3.2979	8.05900
101800	101300	999.08	9.9903	0.27528	1.0130	5.44758	3.2987	8.06100
102000	101500	999.21	9.9924	0.27710	1.0235	5.50963	3.2995	8.06300
102200	101702	999.34	9.9946	0.27891	1.0333	5.57184	3.2999	8.06500
102400	101900	999.48	9.9968	0.28073	1.0432	5.63487	3.3007	8.06700
102600	102098	999.61	9.9990	0.28254	1.0532	5.69867	3.3015	8.06900
102800	102296	999.74	9.9912	0.28436	1.0633	5.76266	3.3023	8.07100
103000	102494	999.87	9.9934	0.28617	1.0735	5.82764 + 1	3.3031	8.07300
103200	102692	999.00	9.9955	0.28798	1.0838	5.89282	3.3039	8.07500
103400	102890	999.13	9.9977	0.28979	1.0941	5.95822	3.3047	8.07700
103600	103088	999.26	9.9999	0.29161	1.1046	6.02385	3.3055	8.07900
103800	103286	999.39	9.9921	0.29342	1.1152	6.08965	3.3063	8.08100
104000	103484	999.53	9.9943	0.29523	1.1258	6.15568	3.3071	8.08300
104200	103682	999.66	9.9964	0.29705	1.1366	6.22198	3.3079	8.08500
104400	103880	999.79	9.9986	0.29886	1.1475	6.28849	3.3087	8.08700
104600	104078	999.92	9.9908	0.30067	1.1586	6.35526	3.3095	8.08900
104800	104276	999.05	9.9930	0.30248	1.1695	6.42226	3.3103	8.09100
105000	104474	999.18	9.9951	0.30429	1.1807	6.48949 + 1	3.3111	8.09300
105200	104672	999.31	9.9973	0.30610	1.1919	6.55692	3.3119	8.09500
105400	104870	999.44	9.9995	0.30791	1.2031	6.62452	3.3127	8.09700
105600	105068	999.57	1.0021	0.30972	1.2143	6.69229	3.3135	8.09900
105800	105266	999.70	1.0043	0.31153	1.2256	6.76024	3.3143	8.10100
106000	105464	999.83	1.0065	0.31334	1.2369	6.82836	3.3151	8.10300
106200	105662	999.96	1.0087	0.31515	1.2482	6.89665	3.3159	8.10500
106400	105860	999.10	1.0109	0.31696	1.2595	6.96511	3.3167	8.10700
106600	106058	999.23	1.0131	0.31877	1.2708	7.03374	3.3175	8.10900
106800	106256	999.36	1.0153	0.32058	1.2821	7.10254	3.3183	8.11100
107000	106454	999.49	1.0175	0.32239	1.2934	7.17151	3.3191	8.11300
107200	106652	999.62	1.0197	0.32420	1.3047	7.24065	3.3199	8.11500
107400	106850	999.75	1.0219	0.32601	1.3160	7.31006	3.3207	8.11700
107600	107048	999.88	1.0241	0.32782	1.3273	7.37964	3.3215	8.11900
107800	107246	999.10	1.0263	0.32963	1.3386	7.44939	3.3223	8.12100
108000	107444	999.23	1.0285	0.33144	1.3499	7.51930	3.3231	8.12300
108200	107642	999.36	1.0307	0.33325	1.3612	7.58937	3.3239	8.12500
108400	107840	999.49	1.0329	0.33506	1.3725	7.65960	3.3247	8.12700
108600	108038	999.62	1.0351	0.33687	1.3838	7.72999	3.3255	8.12900
108800	108236	999.75	1.0373	0.33868	1.3951	7.80054	3.3263	8.13100
109000	108434	999.88	1.0395	0.34049	1.4064	7.87125	3.3271	8.13300
109200	108632	999.10	1.0417	0.34230	1.4177	7.94211	3.3279	8.13500
109400	108830	999.23	1.0439	0.34411	1.4290	8.01312	3.3287	8.13700
109600	109028	999.36	1.0461	0.34592	1.4403	8.08428	3.3295	8.13900
109800	109226	999.49	1.0483	0.34773	1.4516	8.15559	3.3303	8.14100
110000	109424	999.62	1.0505	0.34954	1.4629	8.22705	3.3311	8.14300

TABLE III.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\rho_0}$	k , BTU hr ⁻¹ ft ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
110000	110000	1003.79	1.0145 - 5	0.00002 - 1	1.5496 - 2	9.9017e + 1	3.5311 - 6	0.23070 - 1
110500	111000	1004.71	1.0160	0.00001	1.4102	1.02412 + 2	3.5350	0.23270
111000	111500	1005.62	1.0175	0.00002	1.4520	1.05870	3.5384	0.23470
111500	112000	1006.54	1.0190	0.00003	1.4938	1.07791	3.5421	0.23670
112000	112500	1007.46	1.0205	0.00004	1.5356	1.10570	3.5459	0.23870
112500	113000	1008.37	1.0221	0.00005	1.5775	1.13451	3.5497	0.24070
113000	113500	1009.29	1.0236	0.00006	1.6194	1.16333	3.5535	0.24270
113500	114000	1010.20	1.0251	0.00007	1.6613	1.19214	3.5573	0.24470
114000	114500	1011.11	1.0266	0.00008	1.7032	1.22096	3.5611	0.24670
114500	115000	1012.03	1.0281	0.00009	1.7451	1.24977	3.5649	0.24870
115000	115500	1012.94	1.0297 - 5	0.00010 - 1	2.0243 - 2	1.27859 + 2	3.5687 - 6	0.25070 - 1
115500	116000	1013.85	1.0312	0.00011	2.0760	1.32030	3.5725	0.25270
116000	116500	1014.76	1.0327	0.00012	2.1279	1.35999	3.5763	0.25470
116500	117000	1015.67	1.0342	0.00013	2.1798	1.40001	3.5801	0.25670
117000	117500	1016.58	1.0357	0.00014	2.2317	1.43954	3.5839	0.25870
117500	118000	1017.49	1.0372	0.00015	2.2836	1.47907	3.5877	0.26070
118000	118500	1018.40	1.0387	0.00016	2.3355	1.51860	3.5915	0.26270
118500	119000	1019.31	1.0402	0.00017	2.3874	1.55813	3.5953	0.26470
119000	119500	1020.22	1.0417	0.00018	2.4393	1.59766	3.5991	0.26670
119500	120000	1021.13	1.0432	0.00019	2.4912	1.63719	3.6029	0.26870
120000	120500	1022.04	1.0447 - 5	0.00020 - 1	2.5431 - 2	1.67672 + 2	3.6067 - 6	0.27070 - 1
120500	121000	1022.95	1.0462	0.00021	2.5950	1.71625	3.6105	0.27270
121000	121500	1023.86	1.0477	0.00022	2.6469	1.75578	3.6143	0.27470
121500	122000	1024.77	1.0492	0.00023	2.6988	1.79531	3.6181	0.27670
122000	122500	1025.68	1.0507	0.00024	2.7507	1.83484	3.6219	0.27870
122500	123000	1026.59	1.0522	0.00025	2.8026	1.87437	3.6257	0.28070
123000	123500	1027.50	1.0537	0.00026	2.8545	1.91390	3.6295	0.28270
123500	124000	1028.41	1.0552	0.00027	2.9064	1.95343	3.6333	0.28470
124000	124500	1029.32	1.0567	0.00028	2.9583	1.99296	3.6371	0.28670
124500	125000	1030.23	1.0582	0.00029	3.0102	2.03249	3.6409	0.28870
125000	125500	1031.14	1.0597	0.00030	3.0621	2.07202	3.6447	0.29070
125500	126000	1032.05	1.0612	0.00031	3.1140	2.11155	3.6485	0.29270
126000	126500	1032.96	1.0627	0.00032	3.1659	2.15108	3.6523	0.29470
126500	127000	1033.87	1.0642	0.00033	3.2178	2.19061	3.6561	0.29670
127000	127500	1034.78	1.0657	0.00034	3.2697	2.23014	3.6599	0.29870
127500	128000	1035.69	1.0672	0.00035	3.3216	2.26967	3.6637	0.30070
128000	128500	1036.60	1.0687	0.00036	3.3735	2.30920	3.6675	0.30270
128500	129000	1037.51	1.0702	0.00037	3.4254	2.34873	3.6713	0.30470
129000	129500	1038.42	1.0717	0.00038	3.4773	2.38826	3.6751	0.30670
129500	130000	1039.33	1.0732	0.00039	3.5292	2.42779	3.6789	0.30870
130000	130500	1040.24	1.0747	0.00040	3.5811	2.46732	3.6827	0.31070
130500	131000	1041.15	1.0762	0.00041	3.6330	2.50685	3.6865	0.31270
131000	131500	1042.06	1.0777	0.00042	3.6849	2.54638	3.6903	0.31470
131500	132000	1042.97	1.0792	0.00043	3.7368	2.58591	3.6941	0.31670
132000	132500	1043.88	1.0807	0.00044	3.7887	2.62544	3.6979	0.31870
132500	133000	1044.79	1.0822	0.00045	3.8406	2.66497	3.7017	0.32070
133000	133500	1045.70	1.0837	0.00046	3.8925	2.70450	3.7055	0.32270
133500	134000	1046.61	1.0852	0.00047	3.9444	2.74403	3.7093	0.32470
134000	134500	1047.52	1.0867	0.00048	3.9963	2.78356	3.7131	0.32670
134500	135000	1048.43	1.0882	0.00049	4.0482	2.82309	3.7169	0.32870
135000	135500	1049.34	1.0897	0.00050	4.1001	2.86262	3.7207	0.33070
135500	136000	1050.25	1.0912	0.00051	4.1520	2.90215	3.7245	0.33270
136000	136500	1051.16	1.0927	0.00052	4.2039	2.94168	3.7283	0.33470
136500	137000	1052.07	1.0942	0.00053	4.2558	2.98121	3.7321	0.33670
137000	137500	1052.98	1.0957	0.00054	4.3077	3.02074	3.7359	0.33870
137500	138000	1053.89	1.0972	0.00055	4.3596	3.06027	3.7397	0.34070
138000	138500	1054.80	1.0987	0.00056	4.4115	3.10000	3.7435	0.34270
138500	139000	1055.71	1.1002	0.00057	4.4634	3.13953	3.7473	0.34470
139000	139500	1056.62	1.1017	0.00058	4.5153	3.17906	3.7511	0.34670
139500	140000	1057.53	1.1032	0.00059	4.5672	3.21859	3.7549	0.34870
140000	140500	1058.44	1.1047	0.00060	4.6191	3.25812	3.7587	0.35070
140500	141000	1059.35	1.1062	0.00061	4.6710	3.29765	3.7625	0.35270
141000	141500	1060.26	1.1077	0.00062	4.7229	3.33718	3.7663	0.35470
141500	142000	1061.17	1.1092	0.00063	4.7748	3.37671	3.7701	0.35670
142000	142500	1062.08	1.1107	0.00064	4.8267	3.41624	3.7739	0.35870
142500	143000	1062.99	1.1122	0.00065	4.8786	3.45577	3.7777	0.36070
143000	143500	1063.90	1.1137	0.00066	4.9305	3.49530	3.7815	0.36270
143500	144000	1064.81	1.1152	0.00067	4.9824	3.53483	3.7853	0.36470
144000	144500	1065.72	1.1167	0.00068	5.0343	3.57436	3.7891	0.36670
144500	145000	1066.63	1.1182	0.00069	5.0862	3.61389	3.7929	0.36870
145000	145500	1067.54	1.1197	0.00070	5.1381	3.65342	3.7967	0.37070
145500	146000	1068.45	1.1212	0.00071	5.1900	3.69295	3.8005	0.37270
146000	146500	1069.36	1.1227	0.00072	5.2419	3.73248	3.8043	0.37470
146500	147000	1070.27	1.1242	0.00073	5.2938	3.77201	3.8081	0.37670
147000	147500	1071.18	1.1257	0.00074	5.3457	3.81154	3.8119	0.37870
147500	148000	1072.09	1.1272	0.00075	5.3976	3.85107	3.8157	0.38070
148000	148500	1073.00	1.1287	0.00076	5.4495	3.89060	3.8195	0.38270
148500	149000	1073.91	1.1302	0.00077	5.5014	3.93013	3.8233	0.38470
149000	149500	1074.82	1.1317	0.00078	5.5533	3.96966	3.8271	0.38670
149500	150000	1075.73	1.1332	0.00079	5.6052	4.00919	3.8309	0.38870

TABLE XI - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	$\frac{\mu}{\mu_0}$	$\frac{\mu}{\mu_0}$	$\frac{\eta}{\eta_0}$	$\frac{\eta}{\eta_0}$	$\frac{k}{k_0}$	$\frac{k}{k_0}$
110000	109423	1002.72	1.0127 - 5	0.42216 - 1	1.0235 - 2	0.60075 + 1	3.3045 - 6	0.22262 - 1
110500	109914	1003.63	1.0142	0.43473	1.3428	0.93953	3.3501	0.23046
111000	110412	1004.54	1.0157	0.44729	1.6630	1.01955 + 2	3.3556	0.23829
111500	110907	1005.45	1.0172	0.45984	1.9842	1.04571	3.3611	0.24611
112000	111402	1006.36	1.0187	0.47238	2.3053	1.07251	3.3670	0.25392
112500	111894	1007.27	1.0202	0.48491	2.6265	1.09995	3.3728	0.26173
113000	112391	1008.17	1.0217	0.49742	2.9476	1.12665	3.3782	0.26954
113500	112884	1009.08	1.0232	0.50993	3.2688	1.15370	3.3838	0.27735
114000	113379	1009.98	1.0247	0.52243	3.5899	1.18020	3.3895	0.28516
114500	113875	1010.89	1.0262	0.53492	3.9110	1.20632	3.3951	0.29297
115000	114369	1011.79	1.0277	0.54739	4.2321	1.23194	3.4007	0.30078
115500	114864	1012.69	1.0292	0.55984	4.5532	1.25706	3.4063	0.30859
116000	115358	1013.59	1.0307	0.57231	4.8743	1.28168	3.4119	0.31640
116500	115853	1014.49	1.0322	0.58478	5.1954	1.30630	3.4175	0.32421
117000	116347	1015.39	1.0337	0.59725	5.5165	1.33092	3.4231	0.33202
117500	116842	1016.29	1.0352	0.60972	5.8376	1.35554	3.4287	0.33983
118000	117334	1017.19	1.0367	0.62219	6.1587	1.38016	3.4343	0.34764
118500	117830	1018.09	1.0382	0.63466	6.4798	1.40478	3.4399	0.35545
119000	118321	1018.98	1.0397	0.64713	6.8009	1.42940	3.4455	0.36326
119500	118819	1019.87	1.0412	0.65960	7.1220	1.45402	3.4511	0.37107
120000	119313	1020.77	1.0427	0.67207	7.4431	1.47864	3.4567	0.37888
120500	119808	1021.66	1.0442	0.68454	7.7642	1.50326	3.4623	0.38669
121000	120302	1022.55	1.0457	0.69701	8.0853	1.52788	3.4679	0.39450
121500	120794	1023.45	1.0472	0.70948	8.4064	1.55250	3.4735	0.40231
122000	121290	1024.34	1.0487	0.72195	8.7275	1.57712	3.4791	0.41012
122500	121785	1025.23	1.0502	0.73442	9.0486	1.60174	3.4847	0.41793
123000	122279	1026.12	1.0517	0.74689	9.3697	1.62636	3.4903	0.42574
123500	122773	1027.01	1.0532	0.75936	9.6908	1.65098	3.4959	0.43355
124000	123267	1027.90	1.0547	0.77183	10.0119	1.67560	3.5015	0.44136
124500	123761	1028.78	1.0562	0.78430	10.3330	1.69922	3.5071	0.44917
125000	124255	1029.67	1.0577	0.79677	10.6541	1.72384	3.5127	0.45698
125500	124749	1030.55	1.0592	0.80924	10.9752	1.74846	3.5183	0.46479
126000	125243	1031.44	1.0607	0.82171	11.2963	1.77308	3.5239	0.47260
126500	125737	1032.32	1.0622	0.83418	11.6174	1.79770	3.5295	0.48041
127000	126231	1033.20	1.0637	0.84665	11.9385	1.82232	3.5351	0.48822
127500	126725	1034.08	1.0652	0.85912	12.2596	1.84694	3.5407	0.49603
128000	127219	1034.97	1.0667	0.87159	12.5807	1.87156	3.5463	0.50384
128500	127713	1035.85	1.0682	0.88406	12.9018	1.89618	3.5519	0.51165
129000	128207	1036.73	1.0697	0.89653	13.2229	1.92080	3.5575	0.51946
129500	128701	1037.61	1.0712	0.90899	13.5440	1.94542	3.5631	0.52727
130000	129195	1038.48	1.0727	0.92146	13.8651	1.97004	3.5687	0.53508
130500	129689	1039.36	1.0742	0.93393	14.1862	1.99466	3.5743	0.54289
131000	130182	1040.24	1.0757	0.94640	14.5073	2.01928	3.5799	0.55070
131500	130676	1041.11	1.0772	0.95887	14.8284	2.04390	3.5855	0.55851
132000	131170	1041.99	1.0787	0.97134	15.1495	2.06852	3.5911	0.56632
132500	131664	1042.86	1.0802	0.98381	15.4706	2.09314	3.5967	0.57413
133000	132157	1043.74	1.0817	0.99628	15.7917	2.11776	3.6023	0.58194
133500	132651	1044.61	1.0832	1.00875	16.1128	2.14238	3.6079	0.58975
134000	133144	1045.48	1.0847	1.02122	16.4339	2.16700	3.6135	0.59756
134500	133638	1046.35	1.0862	1.03369	16.7550	2.19162	3.6191	0.60537
135000	134132	1047.22	1.0877	1.04616	17.0761	2.21624	3.6247	0.61318
135500	134625	1048.09	1.0892	1.05863	17.3972	2.24086	3.6303	0.62099
136000	135119	1048.96	1.0907	1.07110	17.7183	2.26548	3.6359	0.62880
136500	135612	1049.83	1.0922	1.08357	18.0394	2.29010	3.6415	0.63661
137000	136106	1050.70	1.0937	1.09604	18.3605	2.31472	3.6471	0.64442
137500	136599	1051.56	1.0952	1.10851	18.6816	2.33934	3.6527	0.65223
138000	137093	1052.43	1.0967	1.12098	19.0027	2.36396	3.6583	0.66004
138500	137586	1053.29	1.0982	1.13345	19.3238	2.38858	3.6639	0.66785
139000	138080	1054.16	1.0997	1.14592	19.6449	2.41320	3.6695	0.67566
139500	138573	1055.02	1.1012	1.15839	19.9660	2.43782	3.6751	0.68347
140000	139066	1055.88	1.1027	1.17086	20.2871	2.46244	3.6807	0.69128
140500	139560	1056.75	1.1042	1.18333	20.6082	2.48706	3.6863	0.69909
141000	140053	1057.61	1.1057	1.19580	20.9293	2.51168	3.6919	0.70690
141500	140547	1058.48	1.1072	1.20827	21.2504	2.53630	3.6975	0.71471
142000	141040	1059.33	1.1087	1.22074	21.5715	2.56092	3.7031	0.72252
142500	141534	1060.19	1.1102	1.23321	21.8926	2.58554	3.7087	0.73033
143000	142027	1061.05	1.1117	1.24568	22.2137	2.61016	3.7143	0.73814
143500	142521	1061.90	1.1132	1.25815	22.5348	2.63478	3.7199	0.74595
144000	143014	1062.76	1.1147	1.27062	22.8559	2.65940	3.7255	0.75376
144500	143508	1063.62	1.1162	1.28309	23.1770	2.68402	3.7311	0.76157
145000	143999	1064.47	1.1177	1.29556	23.4981	2.70864	3.7367	0.76938
145500	144493	1065.33	1.1192	1.30803	23.8192	2.73326	3.7423	0.77719
146000	144986	1066.18	1.1207	1.32050	24.1403	2.75788	3.7479	0.78500
146500	145479	1067.03	1.1222	1.33297	24.4614	2.78250	3.7535	0.79281
147000	145971	1067.89	1.1237	1.34544	24.7825	2.80712	3.7591	0.80062
147500	146464	1068.74	1.1252	1.35791	25.1036	2.83174	3.7647	0.80843
148000	146957	1069.59	1.1267	1.37038	25.4247	2.85636	3.7703	0.81624
148500	147450	1070.44	1.1282	1.38285	25.7458	2.88098	3.7759	0.82405
149000	147943	1071.29	1.1297	1.39532	26.0669	2.90560	3.7815	0.83186
149500	148436	1072.14	1.1312	1.40779	26.3880	2.93022	3.7871	0.83967

TABLE III.—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
M, ft	Z, ft	C_s , ft/sec	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho}$	η , ft ² sec ⁻¹	$\frac{\eta}{\rho}$	k , BTU hr ⁻¹ in ⁻¹ °F ⁻¹	$\frac{k}{k_0}$
150000	151007	1076.03	1.1320 - 5	0.52117 - 1	1.0000 - 1	0.70001 + 2	0.7000 - 6	0.50070 - 1
150500	151504	1075.49	1.1342	0.52310	1.0001	0.70310	0.6000	0.53326
151000	152001	1074.94	1.1367	0.52501	1.1167	0.60957	0.6000	0.56577
151500	152498	1074.38	1.1391	0.52692	1.1366	0.61601	0.6100	0.59828
152000	152995	1073.81	1.1415	0.52882	1.1564	0.62241	0.6200	0.63079
152500	153492	1073.24	1.1439	0.53071	1.1761	0.62881	0.6300	0.66330
153000	153989	1072.67	1.1463	0.53259	1.1958	0.63521	0.6400	0.69581
153500	154486	1072.10	1.1487	0.53448	1.2155	0.64161	0.6500	0.72832
154000	154983	1071.53	1.1511	0.53637	1.2352	0.64801	0.6600	0.76083
154500	155480	1070.96	1.1535	0.53826	1.2549	0.65441	0.6700	0.79334
155000	155977	1070.39	1.1559	0.54015	1.2746	0.66081	0.6800	0.82585
155500	156474	1069.82	1.1583	0.54204	1.2943	0.66721	0.6900	0.85836
156000	156971	1069.25	1.1607	0.54393	1.3140	0.67361	0.7000	0.89087
156500	157468	1068.68	1.1631	0.54582	1.3337	0.68001	0.7100	0.92338
157000	157965	1068.11	1.1655	0.54771	1.3534	0.68641	0.7200	0.95589
157500	158462	1067.54	1.1679	0.54960	1.3731	0.69281	0.7300	0.98840
158000	158959	1066.97	1.1703	0.55149	1.3928	0.69921	0.7400	1.02091
158500	159456	1066.40	1.1727	0.55338	1.4125	0.70561	0.7500	1.05342
159000	159953	1065.83	1.1751	0.55527	1.4322	0.71201	0.7600	1.08593
159500	160450	1065.26	1.1775	0.55716	1.4519	0.71841	0.7700	1.11844
160000	160947	1064.69	1.1799	0.55905	1.4716	0.72481	0.7800	1.15095
160500	161444	1064.12	1.1823	0.56094	1.4913	0.73121	0.7900	1.18346
161000	161941	1063.55	1.1847	0.56283	1.5110	0.73761	0.8000	1.21597
161500	162438	1062.98	1.1871	0.56472	1.5307	0.74401	0.8100	1.24848
162000	162935	1062.41	1.1895	0.56661	1.5504	0.75041	0.8200	1.28099
162500	163432	1061.84	1.1919	0.56850	1.5701	0.75681	0.8300	1.31350
163000	163929	1061.27	1.1943	0.57039	1.5898	0.76321	0.8400	1.34601
163500	164426	1060.70	1.1967	0.57228	1.6095	0.76961	0.8500	1.37852
164000	164923	1060.13	1.1991	0.57417	1.6292	0.77601	0.8600	1.41103
164500	165420	1059.56	1.2015	0.57606	1.6489	0.78241	0.8700	1.44354
165000	165917	1058.99	1.2039	0.57795	1.6686	0.78881	0.8800	1.47605
165500	166414	1058.42	1.2063	0.57984	1.6883	0.79521	0.8900	1.50856
166000	166911	1057.85	1.2087	0.58173	1.7080	0.80161	0.9000	1.54107
166500	167408	1057.28	1.2111	0.58362	1.7277	0.80801	0.9100	1.57358
167000	167905	1056.71	1.2135	0.58551	1.7474	0.81441	0.9200	1.60609
167500	168402	1056.14	1.2159	0.58740	1.7671	0.82081	0.9300	1.63860
168000	168899	1055.57	1.2183	0.58929	1.7868	0.82721	0.9400	1.67111
168500	169396	1055.00	1.2207	0.59118	1.8065	0.83361	0.9500	1.70362
169000	169893	1054.43	1.2231	0.59307	1.8262	0.84001	0.9600	1.73613
169500	170390	1053.86	1.2255	0.59496	1.8459	0.84641	0.9700	1.76864
170000	170887	1053.29	1.2279	0.59685	1.8656	0.85281	0.9800	1.80115
170500	171384	1052.72	1.2303	0.59874	1.8853	0.85921	0.9900	1.83366
171000	171881	1052.15	1.2327	0.60063	1.9050	0.86561	1.0000	1.86617
171500	172378	1051.58	1.2351	0.60252	1.9247	0.87201		
172000	172875	1051.01	1.2375	0.60441	1.9444	0.87841		
172500	173372	1050.44	1.2399	0.60630	1.9641	0.88481		
173000	173869	1049.87	1.2423	0.60819	1.9838	0.89121		
173500	174366	1049.30	1.2447	0.61008	2.0035	0.89761		
174000	174863	1048.73	1.2471	0.61197	2.0232	0.90401		
174500	175360	1048.16	1.2495	0.61386	2.0429	0.91041		
175000	175857	1047.59	1.2519	0.61575	2.0626	0.91681		
175500	176354	1047.02	1.2543	0.61764	2.0823	0.92321		
176000	176851	1046.45	1.2567	0.61953	2.1020	0.92961		
176500	177348	1045.88	1.2591	0.62142	2.1217	0.93601		
177000	177845	1045.31	1.2615	0.62331	2.1414	0.94241		
177500	178342	1044.74	1.2639	0.62520	2.1611	0.94881		
178000	178839	1044.17	1.2663	0.62709	2.1808	0.95521		
178500	179336	1043.60	1.2687	0.62898	2.2005	0.96161		
179000	179833	1043.03	1.2711	0.63087	2.2202	0.96801		
179500	180330	1042.46	1.2735	0.63276	2.2399	0.97441		
180000	180827	1041.89	1.2759	0.63465	2.2596	0.98081		
180500	181324	1041.32	1.2783	0.63654	2.2793	0.98721		
181000	181821	1040.75	1.2807	0.63843	2.2990	0.99361		
181500	182318	1040.18	1.2831	0.64032	2.3187	0.99999		
182000	182815	1039.61	1.2855	0.64221	2.3384	1.00639		
182500	183312	1039.04	1.2879	0.64410	2.3581	1.01279		
183000	183809	1038.47	1.2903	0.64599	2.3778	1.01919		
183500	184306	1037.90	1.2927	0.64788	2.3975	1.02559		
184000	184803	1037.33	1.2951	0.64977	2.4172	1.03199		
184500	185300	1036.76	1.2975	0.65166	2.4369	1.03839		
185000	185797	1036.19	1.2999	0.65355	2.4566	1.04479		
185500	186294	1035.62	1.3023	0.65544	2.4763	1.05119		
186000	186791	1035.05	1.3047	0.65733	2.4960	1.05759		
186500	187288	1034.48	1.3071	0.65922	2.5157	1.06399		
187000	187785	1033.91	1.3095	0.66111	2.5354	1.07039		
187500	188282	1033.34	1.3119	0.66300	2.5551	1.07679		
188000	188779	1032.77	1.3143	0.66489	2.5748	1.08319		
188500	189276	1032.20	1.3167	0.66678	2.5945	1.08959		
189000	189773	1031.63	1.3191	0.66867	2.6142	1.09599		
189500	190270	1031.06	1.3215	0.67056	2.6339	1.10239		
190000	190767	1030.49	1.3239	0.67245	2.6536	1.10879		
190500	191264	1029.92	1.3263	0.67434	2.6733	1.11519		
191000	191761	1029.35	1.3287	0.67623	2.6930	1.12159		
191500	192258	1028.78	1.3311	0.67812	2.7127	1.12799		
192000	192755	1028.21	1.3335	0.68001	2.7324	1.13439		
192500	193252	1027.64	1.3359	0.68190	2.7521	1.14079		
193000	193749	1027.07	1.3383	0.68379	2.7718	1.14719		
193500	194246	1026.50	1.3407	0.68568	2.7915	1.15359		
194000	194743	1025.93	1.3431	0.68757	2.8112	1.15999		
194500	195240	1025.36	1.3455	0.68946	2.8309	1.16639		
195000	195737	1024.79	1.3479	0.69135	2.8506	1.17279		
195500	196234	1024.22	1.3503	0.69324	2.8703	1.17919		
196000	196731	1023.65	1.3527	0.69513	2.8900	1.18559		
196500	197228	1023.08	1.3551	0.69702	2.9097	1.19199		
197000	197725	1022.51	1.3575	0.69891	2.9294	1.19839		
197500	198222	1021.94	1.3599	0.70080	2.9491	1.20479		
198000	198719	1021.37	1.3623	0.70269	2.9688	1.21119		
198500	199216	1020.80	1.3647	0.70458	2.9885	1.21759		
199000	199713	1020.23	1.3671	0.70647	3.0082	1.22399		
199500	200210	1019.66	1.3695	0.70836	3.0279	1.23039		
200000	200707	1019.09	1.3719	0.71025	3.0476	1.23679		
200500	201204	1018.52	1.3743	0.71214	3.0673	1.24319		
201000	201701	1017.95	1.3767	0.71403	3.0870	1.24959		
201500	202198	1017.38	1.3791	0.71592	3.1067	1.25599		
202000	202695	1016.81	1.3815	0.71781	3.1264	1.26239		
202500	203192	1016.24	1.3839	0.71970	3.1461	1.26879		
203000	203689	1015.67	1.3863	0.72159	3.1658	1.27519		
203500	204186	1015.10	1.3887	0.72348	3.1855	1.28159		
204000	204683	1014.53	1.3911	0.72537	3.2052	1.28799		
204500	205180	1013.96	1.3935	0.72726	3.2249	1.29439		
205000	205677	1013.39	1.3959	0.72915	3.2446	1.30079		
205500	206174	1012.82	1.3983	0.73104	3.2643	1.30719		
206000	206671	1012.25	1.4007	0.73293	3.2840	1.31359		
206500	207168	1011.68	1.4031	0.73482	3.3037	1.31999		
207000	207665	1011.11	1.4055	0.73671	3.3234	1.32639		
207500	208162	1010.54	1.4079	0.73860	3.3431	1.33279		
208000	208659	1009.97	1.4103	0.74049	3.3628	1.33919		
208500	209156	1009.40	1.4127	0.74238	3.3825	1.34559		
209000	209653	1008.83	1.4151	0.74427	3.4022	1.35199		
209500	210150	1008.26	1.4175	0.74616	3.4219	1.35839		
210000	210647	1007.69	1.4199	0.74805	3.4416	1.36479		
210500	211144	1007.12	1.4223	0.74994	3.4613			

TABLE III.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\rho_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
154000	150920	1072.99	1.1207 - 5	0.30550 - 1	1.0161 - 1	0.44252 + 2	1.7067 - 6	0.30975 - 1
155000	150922	1073.03	1.1211	0.30577	1.0300	0.44072	1.7021	0.31509
156000	150916	1073.06	1.1216	0.30619	1.0420	0.43911	1.7075	0.32042
157000	150907	1073.55	1.1200	0.30609	1.0554	0.43853	1.6930	0.32575
158000	150900	1074.17	1.1254	0.30623	1.1097	1.05005	1.6904	0.33107
159000	151293	1077.22	1.1248	0.30577	1.1254	1.04771	1.6138	0.33638
160000	151284	1078.04	1.1262	0.30610	1.1593	1.04702	1.6102	0.34169
161000	151278	1078.91	1.1270	0.307702	1.1832	1.03775	1.6244	0.34699
162000	152071	1079.75	1.1210	0.30993	1.2113	1.03026	1.6300	0.35229
163000	153264	1080.59	1.1224	0.31123	1.2301	1.02713	1.6354	0.35758
164000	153264	1081.42	1.1200 - 5	0.31292 - 1	1.2652 - 1	0.46706 + 2	1.6400 - 6	0.36286 - 1
165000	154262	1082.02	1.1200	0.31305	1.2920	0.47193	1.6444	0.36811
166000	154262	1082.02	1.1200	0.31305	1.3168	0.47445	1.6444	0.37341
167000	155254	1082.02	1.1200	0.31305	1.3419	0.47688	1.6444	0.37871
168000	156247	1082.02	1.1200	0.31305	1.3676	0.47927	1.6444	0.38401
169000	157239	1082.02	1.1200	0.31305	1.3930	0.48167	1.6444	0.38931
170000	158232	1082.02	1.1200	0.31305	1.4184	0.48415	1.6444	0.39461
171000	159224	1082.02	1.1200	0.31305	1.4438	0.48666	1.6444	0.40000
172000	160217	1082.02	1.1200	0.31305	1.4693	0.48915	1.6444	0.40539
173000	161210	1082.02	1.1200	0.31305	1.4948	0.49166	1.6444	0.41078
174000	162203	1082.02	1.1200	0.31305	1.5203	0.49415	1.6444	0.41617
175000	163196	1082.02	1.1200	0.31305	1.5458	0.49666	1.6444	0.42156
176000	164189	1082.02	1.1200	0.31305	1.5713	0.49915	1.6444	0.42695
177000	165182	1082.02	1.1200 - 5	0.31305 - 1	1.5968	0.50166	1.6444 - 6	0.43234 - 1
178000	166175	1082.02	1.1200	0.31305	1.6223	0.50415	1.6444	0.43773
179000	167168	1082.02	1.1200	0.31305	1.6478	0.50666	1.6444	0.44312
180000	168161	1082.02	1.1200	0.31305	1.6733	0.50915	1.6444	0.44851
181000	169154	1082.02	1.1200	0.31305	1.6988	0.51166	1.6444	0.45390
182000	170147	1082.02	1.1200	0.31305	1.7243	0.51415	1.6444	0.45929
183000	171140	1082.02	1.1200	0.31305	1.7498	0.51666	1.6444	0.46468
184000	172133	1082.02	1.1200	0.31305	1.7753	0.51915	1.6444	0.47007
185000	173126	1082.02	1.1200	0.31305	1.8008	0.52166	1.6444	0.47546
186000	174119	1082.02	1.1200	0.31305	1.8263	0.52415	1.6444	0.48085
187000	175112	1082.02	1.1200	0.31305	1.8518	0.52666	1.6444	0.48624
188000	176105	1082.02	1.1200	0.31305	1.8773	0.52915	1.6444	0.49163
189000	177098	1082.02	1.1200	0.31305	1.9028	0.53166	1.6444	0.49702
190000	178091	1082.02	1.1200	0.31305	1.9283	0.53415	1.6444	0.50241
191000	179084	1082.02	1.1200	0.31305	1.9538	0.53666	1.6444	0.50780
192000	180077	1082.02	1.1200	0.31305	1.9793	0.53915	1.6444	0.51319
193000	181070	1082.02	1.1200	0.31305	2.0048	0.54166	1.6444	0.51858
194000	182063	1082.02	1.1200	0.31305	2.0303	0.54415	1.6444	0.52397
195000	183056	1082.02	1.1200	0.31305	2.0558	0.54666	1.6444	0.52936
196000	184049	1082.02	1.1200	0.31305	2.0813	0.54915	1.6444	0.53475
197000	185042	1082.02	1.1200	0.31305	2.1068	0.55166	1.6444	0.54014
198000	186035	1082.02	1.1200	0.31305	2.1323	0.55415	1.6444	0.54553
199000	187028	1082.02	1.1200	0.31305	2.1578	0.55666	1.6444	0.55092
200000	188021	1082.02	1.1200	0.31305	2.1833	0.55915	1.6444	0.55631
201000	189014	1082.02	1.1200	0.31305	2.2088	0.56166	1.6444	0.56170
202000	190007	1082.02	1.1200	0.31305	2.2343	0.56415	1.6444	0.56709
203000	190999	1082.02	1.1200	0.31305	2.2598	0.56666	1.6444	0.57248
204000	191992	1082.02	1.1200	0.31305	2.2853	0.56915	1.6444	0.57787
205000	192985	1082.02	1.1200	0.31305	2.3108	0.57166	1.6444	0.58326
206000	193978	1082.02	1.1200	0.31305	2.3363	0.57415	1.6444	0.58865
207000	194971	1082.02	1.1200	0.31305	2.3618	0.57666	1.6444	0.59404
208000	195964	1082.02	1.1200	0.31305	2.3873	0.57915	1.6444	0.59943
209000	196957	1082.02	1.1200	0.31305	2.4128	0.58166	1.6444	0.60482
210000	197950	1082.02	1.1200	0.31305	2.4383	0.58415	1.6444	0.61021
211000	198943	1082.02	1.1200	0.31305	2.4638	0.58666	1.6444	0.61560
212000	199936	1082.02	1.1200	0.31305	2.4893	0.58915	1.6444	0.62099
213000	200929	1082.02	1.1200	0.31305	2.5148	0.59166	1.6444	0.62638
214000	201922	1082.02	1.1200	0.31305	2.5403	0.59415	1.6444	0.63177
215000	202915	1082.02	1.1200	0.31305	2.5658	0.59666	1.6444	0.63716
216000	203908	1082.02	1.1200	0.31305	2.5913	0.59915	1.6444	0.64255
217000	204901	1082.02	1.1200	0.31305	2.6168	0.60166	1.6444	0.64794
218000	205894	1082.02	1.1200	0.31305	2.6423	0.60415	1.6444	0.65333
219000	206887	1082.02	1.1200	0.31305	2.6678	0.60666	1.6444	0.65872
220000	207880	1082.02	1.1200	0.31305	2.6933	0.60915	1.6444	0.66411
221000	208873	1082.02	1.1200	0.31305	2.7188	0.61166	1.6444	0.66950
222000	209866	1082.02	1.1200	0.31305	2.7443	0.61415	1.6444	0.67489
223000	210859	1082.02	1.1200	0.31305	2.7698	0.61666	1.6444	0.68028
224000	211852	1082.02	1.1200	0.31305	2.7953	0.61915	1.6444	0.68567
225000	212845	1082.02	1.1200	0.31305	2.8208	0.62166	1.6444	0.69106
226000	213838	1082.02	1.1200	0.31305	2.8463	0.62415	1.6444	0.69645
227000	214831	1082.02	1.1200	0.31305	2.8718	0.62666	1.6444	0.70184
228000	215824	1082.02	1.1200	0.31305	2.8973	0.62915	1.6444	0.70723
229000	216817	1082.02	1.1200	0.31305	2.9228	0.63166	1.6444	0.71262
230000	217810	1082.02	1.1200	0.31305	2.9483	0.63415	1.6444	0.71801
231000	218803	1082.02	1.1200	0.31305	2.9738	0.63666	1.6444	0.72340
232000	219796	1082.02	1.1200	0.31305	3.0000	0.63915	1.6444	0.72879
233000	220789	1082.02	1.1200	0.31305	3.0255	0.64166	1.6444	0.73418
234000	221782	1082.02	1.1200	0.31305	3.0510	0.64415	1.6444	0.73957
235000	222775	1082.02	1.1200	0.31305	3.0765	0.64666	1.6444	0.74496
236000	223768	1082.02	1.1200	0.31305	3.1020	0.64915	1.6444	0.75035
237000	224761	1082.02	1.1200	0.31305	3.1275	0.65166	1.6444	0.75574
238000	225754	1082.02	1.1200	0.31305	3.1530	0.65415	1.6444	0.76113
239000	226747	1082.02	1.1200	0.31305	3.1785	0.65666	1.6444	0.76652
240000	227740	1082.02	1.1200	0.31305	3.2040	0.65915	1.6444	0.77191
241000	228733	1082.02	1.1200	0.31305	3.2295	0.66166	1.6444	0.77730
242000	229726	1082.02	1.1200	0.31305	3.2550	0.66415	1.6444	0.78269
243000	230719	1082.02	1.1200	0.31305	3.2805	0.66666	1.6444	0.78808
244000	231712	1082.02	1.1200	0.31305	3.3060	0.66915	1.6444	0.79347
245000	232705	1082.02	1.1200	0.31305	3.3315	0.67166	1.6444	0.79886
246000	233698	1082.02	1.1200	0.31305	3.3570	0.67415	1.6444	0.80425
247000	234691	1082.02	1.1200	0.31305	3.3825	0.67666	1.6444	0.80964
248000	235684	1082.02	1.1200	0.31305	3.4080	0.67915	1.6444	0.81503
249000	236677	1082.02	1.1200	0.31305	3.4335	0.68166	1.6444	0.82042
250000	237670	1082.02	1.1200	0.31305	3.4590	0.68415	1.6444	0.82581
251000	238663	1082.02	1.1200	0.31305	3.4845	0.68666	1.6444	0.83120
252000	239656	1082.02	1.1200	0.31305	3.5100	0.68915	1.6444	0.83659
253000	240649	1082.02	1.1200	0.31305	3.5355	0.69166	1.6444	0.84198
254000	241642	1082.02	1.1200	0.31305	3.5610	0.69415	1.6444	0.84737
255000	242635	1082.02	1.1200	0.31305	3.5865	0.69666	1.6444	0.85276
256000	243628	1082.02	1.1200	0.31305	3.6120	0.69915	1.6444	0.85815
257000	244621	1082.02	1.1200	0.31305	3.6375	0.70166	1.6444	0.86354
258000	245614	1082.02	1.1200	0.31305	3.6630	0.70415	1.6444	0.86893
259000	246607	1082.02	1.1200	0.31305	3.6885	0.70666	1.6444	0.87432
260000	247600	1082.02	1.1200	0.31305	3.7140	0.70915	1.6444	0.87971
261000	248593	1082.02	1.1200	0.31305	3.7395	0.71166	1.6444	0.88510
262000	249586	1082.02	1.1200	0.31305	3.7650	0.71415	1.6444	0.89049
263000	250579	1082.02	1.1200	0.31305	3.7905	0.71666	1.6444	0.89588
264000	251572	1082.02	1.1200</					

TABLE XI—Continued
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU hr ⁻¹ ft ⁻¹ °F ⁻¹	$\frac{k}{k_c}$
100000	191797	1050.12	1.1049 - 5	9.18913 - 1	6.7802 - 1	3.04024 + 3	3.4918 - 6	9.07636 - 1
100500	192256	1057.49	1.1039	9.18908	6.8471	3.09550	3.4879	9.06687
101000	192764	1064.87	1.1028	9.17183	6.9354	3.15181	3.4839	9.05700
101500	193273	1072.25	1.1016	9.16317	7.0459	3.20722	3.4800	9.04754
102000	193784	1079.62	1.1007	9.15451	7.1379	3.26776	3.4760	9.03759
102500	194294	1086.99	1.0997	9.14586	7.2317	3.32740	3.4720	9.02754
103000	194805	1094.37	1.0987	9.13717	7.3275	3.38621	3.4681	9.01809
103500	195315	1101.75	1.0976	9.12849	7.4248	3.44522	3.4641	9.00833
104000	195825	1109.12	1.0965	9.11981	7.5242	3.50433	3.4601	9.00057
104500	196331	1116.50	1.0955	9.11112	7.6255	3.57787	3.4562	9.00000
105000	196841	1123.87	1.0945 - 5	9.10243 - 1	7.7288 - 1	3.64258 + 3	3.4522 - 6	9.00000 - 1
105500	197354	1131.24	1.0935	9.09374	7.8342	3.71057	3.4482	9.00000
106000	197864	1138.61	1.0924	9.08504	7.9416	3.77800	3.4442	9.00000
106500	198379	1145.99	1.0913	9.07635	8.0511	3.84633	3.4403	9.00000
107000	198894	1153.37	1.0903	9.06765	8.1627	3.91554	3.4363	9.00000
107500	199409	1160.75	1.0892	9.05896	8.2744	3.98475	3.4323	9.00000
108000	199924	1168.12	1.0882	9.05026	8.3872	4.05396	3.4283	9.00000
108500	200439	1175.50	1.0872	9.04156	8.5010	4.12317	3.4243	9.00000
109000	200954	1182.87	1.0861	9.03287	8.6158	4.19238	3.4203	9.00000
109500	201469	1190.25	1.0851	9.02417	8.7316	4.26159	3.4164	9.00000
110000	201984	1197.62	1.0840 - 5	9.01548 - 1	8.8484 - 1	4.33079 + 3	3.4124 - 6	9.00000 - 1
110500	202499	1205.00	1.0830	9.00678	8.9652	4.40000	3.4084	9.00000
111000	203014	1212.37	1.0820	9.00000	9.0820	4.46921	3.4044	9.00000
111500	203529	1219.75	1.0810	8.99130	9.1988	4.53842	3.4004	9.00000
112000	204044	1227.12	1.0800	8.98260	9.3156	4.60763	3.3964	9.00000
112500	204559	1234.50	1.0790	8.97390	9.4324	4.67684	3.3924	9.00000
113000	205074	1241.87	1.0780	8.96520	9.5492	4.74605	3.3884	9.00000
113500	205589	1249.25	1.0770	8.95650	9.6660	4.81526	3.3844	9.00000
114000	206104	1256.62	1.0760	8.94780	9.7828	4.88447	3.3804	9.00000
114500	206619	1264.00	1.0750	8.93910	9.8996	4.95368	3.3764	9.00000
115000	207134	1271.37	1.0740 - 5	8.93040 - 1	10.0164 - 1	5.02289 + 3	3.3724 - 6	9.00000 - 1
115500	207649	1278.75	1.0730	8.92170	10.1332	5.09210	3.3684	9.00000
116000	208164	1286.12	1.0720	8.91300	10.2500	5.16131	3.3644	9.00000
116500	208679	1293.50	1.0710	8.90430	10.3668	5.23052	3.3604	9.00000
117000	209194	1300.87	1.0700	8.89560	10.4836	5.29973	3.3564	9.00000
117500	209709	1308.25	1.0690	8.88690	10.5999	5.36894	3.3524	9.00000
118000	210224	1315.62	1.0680	8.87820	10.7167	5.43815	3.3484	9.00000
118500	210739	1323.00	1.0670	8.86950	10.8335	5.50736	3.3444	9.00000
119000	211254	1330.37	1.0660	8.86080	10.9503	5.57657	3.3404	9.00000
119500	211769	1337.75	1.0650 - 5	8.85210 - 1	11.0671 - 1	5.64578 + 3	3.3364 - 6	9.00000 - 1
120000	212284	1345.12	1.0640	8.84340	11.1839	5.71499	3.3324	9.00000
120500	212799	1352.50	1.0630	8.83470	11.2999	5.78420	3.3284	9.00000
121000	213314	1359.87	1.0620	8.82600	11.4167	5.85341	3.3244	9.00000
121500	213829	1367.25	1.0610	8.81730	11.5335	5.92262	3.3204	9.00000
122000	214344	1374.62	1.0600	8.80860	11.6503	5.99183	3.3164	9.00000
122500	214859	1382.00	1.0590	8.79990	11.7671	6.06104	3.3124	9.00000
123000	215374	1389.37	1.0580	8.79120	11.8839	6.13025	3.3084	9.00000
123500	215889	1396.75	1.0570	8.78250	11.9999	6.19946	3.3044	9.00000
124000	216404	1404.12	1.0560	8.77380	12.1167	6.26867	3.3004	9.00000
124500	216919	1411.50	1.0550 - 5	8.76510 - 1	12.2335 - 1	6.33788 + 3	3.2964 - 6	9.00000 - 1
125000	217434	1418.87	1.0540	8.75640	12.3503	6.40709	3.2924	9.00000
125500	217949	1426.25	1.0530	8.74770	12.4671	6.47630	3.2884	9.00000
126000	218464	1433.62	1.0520	8.73900	12.5839	6.54551	3.2844	9.00000
126500	218979	1441.00	1.0510	8.73030	12.6999	6.61472	3.2804	9.00000
127000	219494	1448.37	1.0500	8.72160	12.8167	6.68393	3.2764	9.00000
127500	220009	1455.75	1.0490	8.71290	12.9335	6.75314	3.2724	9.00000
128000	220524	1463.12	1.0480	8.70420	13.0503	6.82235	3.2684	9.00000
128500	221039	1470.50	1.0470	8.69550	13.1671	6.89156	3.2644	9.00000
129000	221554	1477.87	1.0460	8.68680	13.2839	6.96077	3.2604	9.00000
129500	222069	1485.25	1.0450 - 5	8.67810 - 1	13.3999 - 1	7.02998 + 3	3.2564 - 6	9.00000 - 1
130000	222584	1492.62	1.0440	8.66940	13.5167	7.09919	3.2524	9.00000
130500	223099	1500.00	1.0430	8.66070	13.6335	7.16840	3.2484	9.00000
131000	223614	1507.37	1.0420	8.65200	13.7503	7.23761	3.2444	9.00000
131500	224129	1514.75	1.0410	8.64330	13.8671	7.30682	3.2404	9.00000
132000	224644	1522.12	1.0400	8.63460	13.9839	7.37603	3.2364	9.00000
132500	225159	1529.50	1.0390	8.62590	14.0999	7.44524	3.2324	9.00000
133000	225674	1536.87	1.0380	8.61720	14.2167	7.51445	3.2284	9.00000
133500	226189	1544.25	1.0370	8.60850	14.3335	7.58366	3.2244	9.00000
134000	226704	1551.62	1.0360	8.59980	14.4503	7.65287	3.2204	9.00000
134500	227219	1559.00	1.0350 - 5	8.59110 - 1	14.5671 - 1	7.72208 + 3	3.2164 - 6	9.00000 - 1
135000	227734	1566.37	1.0340	8.58240	14.6839	7.79129	3.2124	9.00000
135500	228249	1573.75	1.0330	8.57370	14.7999	7.86050	3.2084	9.00000
136000	228764	1581.12	1.0320	8.56500	14.9167	7.92971	3.2044	9.00000
136500	229279	1588.50	1.0310	8.55630	15.0335	8.00000	3.2004	9.00000
137000	229794	1595.87	1.0300	8.54760	15.1503	8.07021	3.1964	9.00000
137500	230309	1603.25	1.0290	8.53890	15.2671	8.14042	3.1924	9.00000
138000	230824	1610.62	1.0280	8.53020	15.3839	8.21063	3.1884	9.00000
138500	231339	1618.00	1.0270	8.52150	15.4999	8.28084	3.1844	9.00000
139000	231854	1625.37	1.0260	8.51280	15.6167	8.35105	3.1804	9.00000
139500	232369	1632.75	1.0250 - 5	8.50410 - 1	15.7335 - 1	8.42126 + 3	3.1764 - 6	9.00000 - 1
140000	232884	1640.12	1.0240	8.49540	15.8503	8.49147	3.1724	9.00000
140500	233399	1647.50	1.0230	8.48670	15.9671	8.56168	3.1684	9.00000
141000	233914	1654.87	1.0220	8.47800	16.0839	8.63189	3.1644	9.00000
141500	234429	1662.25	1.0210	8.46930	16.1999	8.70210	3.1604	9.00000
142000	234944	1669.62	1.0200	8.46060	16.3167	8.77231	3.1564	9.00000
142500	235459	1677.00	1.0190	8.45190	16.4335	8.84252	3.1524	9.00000
143000	235974	1684.37	1.0180	8.44320	16.5503	8.91273	3.1484	9.00000
143500	236489	1691.75	1.0170	8.43450	16.6671	8.98294	3.1444	9.00000
144000	236999	1699.12	1.0160	8.42580	16.7839	9.05315	3.1404	9.00000
144500	237514	1706.50	1.0150 - 5	8.41710 - 1	16.8999 - 1	9.12336 + 3	3.1364 - 6	9.00000 - 1
145000	238029	1713.87	1.0140	8.40840	17.0167	9.19357	3.1324	9.00000
145500	238544	1721.25	1.0130	8.40000	17.1335	9.26378	3.1284	9.00000
146000	239059	1728.62	1.0120	8.39130	17.2503	9.33399	3.1244	9.00000
146500	239574	1736.00	1.0110	8.38260	17.3671	9.40420	3.1204	9.00000
147000	240089	1743.37	1.0100	8.37390	17.4839	9.47441	3.1164	9.00000
147500	240604	1750.75	1.0090	8.36520	17.5999	9.54462	3.1124	9.00000
148000	241119	1758.12	1.0080	8.35650	17.7167	9.61483	3.1084	9.00000
148500	241634	1765.50	1.0070	8.34780	17.8335	9.68504	3.1044	9.00000
149000	242149	1772.87	1.0060	8.33910	17.9503	9.75525	3.1004	9.00000
149500	242664	1780.25	1.0050 - 5	8.33040 - 1	18.0671 - 1	9.82546 + 3	3.0964 - 6	9.00000 - 1
150000	243179	1787.62	1.0040	8.32170	18.1839	9.89567	3.0924	9.00000
150500	243694	1795.00	1.0030	8.31300	18.2999	9.96588	3.0884	9.00000
151000	244209	1802.37	1.0020	8.30430	18.4167	10.03609	3.0844	9.00000
151500	244724	1809.75	1.0010	8.29560	18.5335	10.10630	3.0804	9.00000
152000	245239	1817.12	1.0000	8.28690	18.6503	10.17651	3.0764	9.00000
152500	245754	1824.50	0.9990	8.27820	18.7671	10.24672	3.0724	9.00000
153000	246269	1831.87	0.9980	8.26950	18.8839	10.31693	3.0684	9.00000
153500	246784	1839.25	0.9970	8.26080	18.9999	10.38714	3.0644	9.00000
154000	247299	1846.62						

TABLE II - Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°F) ⁻¹	$\frac{k}{k_0}$
190000	166284	1060.25	1.1085 - 5	9.21977 - 1	4.3965 - 1	2.65855 + 3	3.7054 - 6	9.10995 - 1
190500	166775	1059.64	1.1075	9.21029	4.3744	2.66934	3.7019	9.10040
191000	167266	1059.03	1.1064	9.20181	4.3537	2.68109	3.6977	9.09084
191500	167757	1058.42	1.1054	9.19333	4.3347	3.01382	3.6930	9.08128
192000	168248	1057.81	1.1044	9.18484	4.3155	3.02755	3.6887	9.07172
192500	168739	1057.20	1.1034	9.17636	4.2962	3.12230	3.6840	9.06216
193000	169230	1056.58	1.1023	9.16789	4.2769	3.17807	3.6821	9.05260
193500	169721	1055.97	1.1013	9.15941	4.2576	3.23484	3.6782	9.04303
194000	170212	1055.36	1.1003	9.15094	4.2383	3.29264	3.6743	9.03346
194500	170703	1054.74	1.0993	9.14246	4.2190	3.35109	3.6704	9.02388
195000	193193	1054.13	1.0983 + 5	9.13398 - 1	4.2000 - 1	3.41205 + 3	3.6665 - 6	9.01431 - 1
195500	193684	1053.52	1.0972	9.12550	4.1812	3.47355	3.6626	9.00474
196000	194175	1052.90	1.0962	9.11702	4.1625	3.53505	3.6587	8.99516
196500	194666	1052.29	1.0952	9.10854	4.1437	3.59655	3.6548	8.98558
197000	195157	1051.67	1.0942	9.09997	4.1250	3.65805	3.6509	8.97600
197500	195648	1051.06	1.0932	9.09149	4.1062	3.71955	3.6470	8.96642
198000	196139	1050.44	1.0922	9.08292	4.0875	3.78105	3.6431	8.95684
198500	196630	1049.83	1.0911	9.07434	4.0687	3.84255	3.6392	8.94726
199000	197121	1049.21	1.0900	9.06577	4.0500	3.90405	3.6353	8.93768
199500	197612	1048.59	1.0890	9.05719	4.0312	3.96555	3.6314	8.92810
200000	198103	1047.98	1.0880 - 5	9.04861 - 1	4.0125 - 1	4.02705 + 3	3.6275 - 6	8.91851 - 1
200500	198594	1047.36	1.0870	9.04004	4.0000	4.08855	3.6236	8.90893
201000	199085	1046.74	1.0860	9.03146	4.0000	4.15005	3.6197	8.89935
201500	199576	1046.12	1.0850	9.02289	4.0000	4.21155	3.6158	8.88977
202000	200067	1045.50	1.0840	9.01431	4.0000	4.27305	3.6119	8.88019
202500	200558	1044.88	1.0830	9.00574	4.0000	4.33455	3.6080	8.87061
203000	201049	1044.26	1.0820	9.00000	4.0000	4.39605	3.6041	8.86103
203500	201540	1043.64	1.0810	8.99426	4.0000	4.45755	3.6002	8.85145
204000	202031	1043.02	1.0800	8.98852	4.0000	4.51905	3.5963	8.84187
204500	202522	1042.40	1.0790	8.98278	4.0000	4.58055	3.5924	8.83229
205000	203013	1041.78	1.0780	8.97704	4.0000	4.64205	3.5885	8.82271
205500	203504	1041.16	1.0770	8.97130	4.0000	4.70355	3.5846	8.81313
206000	203995	1040.54	1.0760	8.96556	4.0000	4.76505	3.5807	8.80355
206500	204486	1039.92	1.0750	8.95982	4.0000	4.82655	3.5768	8.79397
207000	204977	1039.30	1.0740	8.95408	4.0000	4.88805	3.5729	8.78439
207500	205468	1038.68	1.0730	8.94834	4.0000	4.94955	3.5690	8.77481
208000	205959	1038.06	1.0720	8.94260	4.0000	5.01105	3.5651	8.76523
208500	206450	1037.44	1.0710	8.93686	4.0000	5.07255	3.5612	8.75565
209000	206941	1036.82	1.0700	8.93112	4.0000	5.13405	3.5573	8.74607
209500	207432	1036.20	1.0690	8.92538	4.0000	5.19555	3.5534	8.73649
210000	207923	1035.58	1.0680 - 5	8.91964 - 1	4.0000 - 1	5.25705 + 3	3.5495 - 6	8.72691 - 1
210500	208414	1034.96	1.0670	8.91390	4.0000	5.31855	3.5456	8.71733
211000	208905	1034.34	1.0660	8.90816	4.0000	5.38005	3.5417	8.70775
211500	209396	1033.72	1.0650	8.90242	4.0000	5.44155	3.5378	8.69817
212000	209887	1033.10	1.0640	8.89668	4.0000	5.50305	3.5339	8.68859
212500	210378	1032.48	1.0630	8.89094	4.0000	5.56455	3.5300	8.67901
213000	210869	1031.86	1.0620	8.88520	4.0000	5.62605	3.5261	8.66943
213500	211360	1031.24	1.0610	8.87946	4.0000	5.68755	3.5222	8.65985
214000	211851	1030.62	1.0600	8.87372	4.0000	5.74905	3.5183	8.65027
214500	212342	1030.00	1.0590	8.86798	4.0000	5.81055	3.5144	8.64069
215000	212833	1029.38	1.0580 - 5	8.86224 - 1	4.0000 - 1	5.87205 + 3	3.5105 - 6	8.63111 - 1
215500	213324	1028.76	1.0570	8.85650	4.0000	5.93355	3.5066	8.62153
216000	213815	1028.14	1.0560	8.85076	4.0000	5.99505	3.5027	8.61195
216500	214306	1027.52	1.0550	8.84502	4.0000	6.05655	3.4988	8.60237
217000	214797	1026.90	1.0540	8.83928	4.0000	6.11805	3.4949	8.59279
217500	215288	1026.28	1.0530	8.83354	4.0000	6.17955	3.4910	8.58321
218000	215779	1025.66	1.0520	8.82780	4.0000	6.24105	3.4871	8.57363
218500	216270	1025.04	1.0510	8.82206	4.0000	6.30255	3.4832	8.56405
219000	216761	1024.42	1.0500	8.81632	4.0000	6.36405	3.4793	8.55447
219500	217252	1023.80	1.0490	8.81058	4.0000	6.42555	3.4754	8.54489
220000	217743	1023.18	1.0480 - 5	8.80484 - 1	4.0000 - 1	6.48705 + 3	3.4715 - 6	8.53531 - 1
220500	218234	1022.56	1.0470	8.79910	4.0000	6.54855	3.4676	8.52573
221000	218725	1021.94	1.0460	8.79336	4.0000	6.61005	3.4637	8.51615
221500	219216	1021.32	1.0450	8.78762	4.0000	6.67155	3.4598	8.50657
222000	219707	1020.70	1.0440	8.78188	4.0000	6.73305	3.4559	8.49699
222500	220198	1020.08	1.0430	8.77614	4.0000	6.79455	3.4520	8.48741
223000	220689	1019.46	1.0420	8.77040	4.0000	6.85605	3.4481	8.47783
223500	221180	1018.84	1.0410	8.76466	4.0000	6.91755	3.4442	8.46825
224000	221671	1018.22	1.0400	8.75892	4.0000	6.97905	3.4403	8.45867
224500	222162	1017.60	1.0390	8.75318	4.0000	7.04055	3.4364	8.44909
225000	222653	1016.98	1.0380 - 5	8.74744 - 1	4.0000 - 1	7.10205 + 3	3.4325 - 6	8.43951 - 1
225500	223144	1016.36	1.0370	8.74170	4.0000	7.16355	3.4286	8.42993
226000	223635	1015.74	1.0360	8.73596	4.0000	7.22505	3.4247	8.42035
226500	224126	1015.12	1.0350	8.73022	4.0000	7.28655	3.4208	8.41077
227000	224617	1014.50	1.0340	8.72448	4.0000	7.34805	3.4169	8.40119
227500	225108	1013.88	1.0330	8.71874	4.0000	7.40955	3.4130	8.39161
228000	225599	1013.26	1.0320	8.71300	4.0000	7.47105	3.4091	8.38203
228500	226090	1012.64	1.0310	8.70726	4.0000	7.53255	3.4052	8.37245
229000	226581	1012.02	1.0300	8.70152	4.0000	7.59405	3.4013	8.36287
229500	227072	1011.40	1.0290	8.69578	4.0000	7.65555	3.3974	8.35329
230000	227563	1010.78	1.0280 - 5	8.69004 - 1	4.0000 - 1	7.71705 + 3	3.3935 - 6	8.34371 - 1
230500	228054	1010.16	1.0270	8.68430	4.0000	7.77855	3.3896	8.33413
231000	228545	1009.54	1.0260	8.67856	4.0000	7.84005	3.3857	8.32455
231500	229036	1008.92	1.0250	8.67282	4.0000	7.90155	3.3818	8.31497
232000	229527	1008.30	1.0240	8.66708	4.0000	7.96305	3.3779	8.30539
232500	230018	1007.68	1.0230	8.66134	4.0000	8.02455	3.3740	8.29581
233000	230509	1007.06	1.0220	8.65560	4.0000	8.08605	3.3701	8.28623
233500	230990	1006.44	1.0210	8.64986	4.0000	8.14755	3.3662	8.27665
234000	231481	1005.82	1.0200	8.64412	4.0000	8.20905	3.3623	8.26707
234500	231972	1005.20	1.0190	8.63838	4.0000	8.27055	3.3584	8.25749
235000	232463	1004.58	1.0180	8.63264	4.0000	8.33205	3.3545	8.24791
235500	232954	1003.96	1.0170	8.62690	4.0000	8.39355	3.3506	8.23833
236000	233445	1003.34	1.0160	8.62116	4.0000	8.45505	3.3467	8.22875
236500	233936	1002.72	1.0150	8.61542	4.0000	8.51655	3.3428	8.21917
237000	234427	1002.10	1.0140	8.60968	4.0000	8.57805	3.3389	8.20959
237500	234918	1001.48	1.0130	8.60394	4.0000	8.63955	3.3350	8.20001
238000	235409	1000.86	1.0120	8.59820	4.0000	8.70105	3.3311	8.19043
238500	235890	1000.24	1.0110	8.59246	4.0000	8.76255	3.3272	8.18085
239000	236381	1000.00	1.0100	8.58672	4.0000	8.82405	3.3233	8.17127
239500	236872	999.38	1.0090	8.58098	4.0000	8.88555	3.3194	8.16169
240000	237363	998.76	1.0080 - 5	8.57524 - 1	4.0000 - 1	8.94705 + 3	3.3155 - 6	8.15211 - 1
240500	237854	998.14	1.0070	8.56950	4.0000	9.00855	3.3116	8.14253
241000	238345	997.52	1.0060	8.56376	4.0000	9.07005	3.3077	8.13295
241500	238836	996.90	1.0050	8.55802	4.0000	9.13155	3.3038	8.12337
242000	239327	996.28	1.0040	8.55228	4.0000	9.19305	3.2999	8.11379
242500	239818	995.66	1.0030	8.54654	4.0000	9.25455	3.2960	8.10421
243000	240309	995.04	1.0020	8.54080	4.0000	9.31605	3.2921	8.09463
243500	240790	994.42	1.0010	8.53506	4.0000	9.37755	3.2882	8.08505
244000	241281	993.80	1.0000	8.52932	4.0000	9.43905	3.2843	8.07547
244500	241772	993.18	0.9990	8				

TABLE VI — Continued
 GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C _s , ft/sec	$\frac{\mu}{\mu_0}$	$\frac{\mu}{\mu_0}$	$\frac{\eta}{\eta_0}$	$\frac{\eta}{\eta_0}$	$\frac{k}{k_0}$	$\frac{k}{k_0}$
250000	232585	947.15	9.5376 - 6	7.93194 - 1	1.9677 + 0	1.25145 + 5	3.1249 - 6	7.48762 - 1
250500	233076	945.76	9.5169	7.91319	2.0032	1.27555	3.1184	7.46753
251000	233568	944.32	9.4923	7.89442	2.0387	1.29978	3.1104	7.44705
251500	234059	942.95	9.4697	7.87567	2.0729	1.32475	3.1021	7.42673
252000	234549	941.60	9.4471	7.85650	2.1080	1.35024	3.0939	7.40640
252500	235038	940.31	9.4244	7.83796	2.1440	1.37634	3.0854	7.38607
253000	235525	939.03	9.4017	7.81910	2.1800	1.40300	3.0773	7.36575
253500	236014	937.76	9.3790	7.80021	2.2168	1.43025	3.0690	7.34537
254000	236502	936.48	9.3563	7.78130	2.2528	1.45811	3.0608	7.32500
254500	236987	935.20	9.3335	7.76237	2.2897	1.48659	3.0525	7.30462
255000	237471	933.92	9.3107 - 6	7.74341 - 1	2.3262 + 0	1.51571 + 5	3.0442 - 6	7.28423 - 1
255500	237956	932.65	9.2879	7.72443	2.3630	1.54549	3.0359	7.26381
256000	238439	931.36	9.2651	7.70545	2.3997	1.57593	3.0276	7.24342
256500	238921	930.06	9.2422	7.68640	2.4368	1.60707	3.0193	7.22300
257000	239402	928.77	9.2193	7.66735	2.4741	1.63891	3.0110	7.20254
257500	239881	927.48	9.1963	7.64828	2.5116	1.67147	3.0026	7.18212
258000	240359	926.18	9.1734	7.62918	2.5494	1.70477	2.9943	7.16166
258500	240836	924.89	9.1504	7.61006	2.5874	1.73884	2.9860	7.14119
259000	241311	923.59	9.1274	7.59091	2.6256	1.77364	2.9777	7.12071
259500	241785	922.29	9.1043	7.57174	2.6640	1.80934	2.9693	7.10022
260000	242259	921.00	9.0812 - 6	7.55255 - 1	2.7022 + 0	1.84581 + 5	2.9610 - 6	7.27972 - 1
260500	242730	919.70	9.0581	7.53334	2.7400	1.88313	2.9526	7.25921
261000	243199	918.40	9.0350	7.51410	2.7780	1.92131	2.9443	7.23868
261500	243666	917.10	9.0118	7.49483	2.8162	1.96038	2.9359	7.21815
262000	244131	915.80	8.9887	7.47556	2.8546	2.00037	2.9276	7.19760
262500	244594	914.50	8.9656	7.45623	2.8931	2.04129	2.9192	7.17704
263000	245056	913.20	8.9424	7.43689	2.9317	2.08317	2.9109	7.15647
263500	245516	911.90	8.9193	7.41753	2.9704	2.12603	2.9025	7.13590
264000	245974	910.60	8.8961	7.39815	3.0092	2.16991	2.8941	7.11531
264500	246431	909.30	8.8729	7.37874	3.0482	2.21483	2.8857	7.09470
265000	246887	908.00	8.8497 - 6	7.35930 - 1	3.0874 + 0	2.26081 + 5	2.8774 - 6	7.07409 - 1
265500	247341	906.70	8.8265	7.33984	3.1267	2.30789	2.8690	7.05347
266000	247794	905.40	8.8032	7.32044	3.1662	2.35561	2.8606	7.03282
266500	248245	904.10	8.7799	7.30099	3.2058	2.40395	2.8522	7.01217
267000	248694	902.80	8.7566	7.28153	3.2456	2.45290	2.8438	6.99150
267500	249141	901.50	8.7332	7.26210	3.2856	2.50248	2.8354	6.97079
268000	249586	900.20	8.7098	7.24264	3.3258	2.55268	2.8270	6.95002
268500	250029	898.90	8.6864	7.22321	3.3662	2.60351	2.8186	6.92919
269000	250470	897.60	8.6630	7.20379	3.4068	2.65497	2.8101	6.90830
269500	250909	896.30	8.6395	7.18433	3.4476	2.70707	2.8017	6.88731
270000	251346	895.00	8.6160	7.16484	3.4886	2.75981	2.7933	6.86624
270500	251781	893.70	8.5925	7.14533	3.5298	2.81319	2.7849	6.84508
271000	252214	892.40	8.5690	7.12579	3.5712	2.86721	2.7765	6.82382
271500	252645	891.10	8.5455	7.10623	3.6128	2.92187	2.7681	6.80247
272000	253074	889.80	8.5219	7.08664	3.6546	2.97717	2.7597	6.78102
272500	253501	888.50	8.4984	7.06703	3.6966	3.03311	2.7513	6.75947
273000	253926	887.20	8.4748	7.04739	3.7388	3.08969	2.7429	6.73782
273500	254349	885.90	8.4512	7.02773	3.7812	3.14691	2.7345	6.71607
274000	254770	884.60	8.4276	7.00804	3.8238	3.20477	2.7261	6.69422
274500	255189	883.30	8.4039	6.98833	3.8666	3.26327	2.7177	6.67227
275000	255606	882.00	8.3802	6.96859	3.9096	3.32141	2.7093	6.65022
275500	256021	880.70	8.3565	6.94882	3.9528	3.38019	2.7009	6.62817
276000	256434	879.40	8.3328	6.92903	3.9962	3.43961	2.6925	6.60602
276500	256845	878.10	8.3090	6.90921	4.0398	3.49967	2.6841	6.58377
277000	257254	876.80	8.2852	6.88937	4.0836	3.56037	2.6757	6.56142
277500	257661	875.50	8.2614	6.86950	4.1276	3.62171	2.6673	6.53897
278000	258066	874.20	8.2376	6.84961	4.1718	3.68369	2.6589	6.51642
278500	258469	872.90	8.2137	6.82969	4.2162	3.74631	2.6505	6.49387
279000	258870	871.60	8.1898	6.80974	4.2608	3.80957	2.6421	6.47122
279500	259269	870.30	8.1659	6.78977	4.3056	3.87347	2.6337	6.44847
280000	259666	869.00	8.1419	6.76977	4.3506	3.93791	2.6253	6.42562
280500	260061	867.70	8.1179	6.74974	4.3958	4.00289	2.6169	6.40267
281000	260454	866.40	8.0938	6.72969	4.4412	4.06841	2.6085	6.37962
281500	260845	865.10	8.0697	6.70961	4.4868	4.13447	2.6001	6.35647
282000	261234	863.80	8.0456	6.68950	4.5326	4.20107	2.5917	6.33322
282500	261621	862.50	8.0214	6.66937	4.5796	4.26821	2.5833	6.30987
283000	262006	861.20	7.9972	6.64921	4.6268	4.33589	2.5749	6.28642
283500	262389	859.90	7.9730	6.62903	4.6742	4.40411	2.5665	6.26287
284000	262770	858.60	7.9487	6.60882	4.7218	4.47287	2.5581	6.23922
284500	263149	857.30	7.9244	6.58859	4.7696	4.54217	2.5497	6.21547
285000	263526	856.00	7.9001	6.56833	4.8176	4.61201	2.5413	6.19162
285500	263901	854.70	7.8758	6.54804	4.8658	4.68239	2.5329	6.16767
286000	264274	853.40	7.8514	6.52773	4.9142	4.75331	2.5245	6.14362
286500	264645	852.10	7.8270	6.50739	4.9628	4.82477	2.5161	6.11947
287000	265014	850.80	7.8026	6.48703	5.0116	4.89677	2.5077	6.09522
287500	265381	849.50	7.7781	6.46664	5.0606	4.96931	2.4993	6.07087
288000	265746	848.20	7.7536	6.44623	5.1098	5.04239	2.4909	6.04642
288500	266109	846.90	7.7291	6.42579	5.1592	5.11601	2.4825	6.02187
289000	266470	845.60	7.7046	6.40533	5.2088	5.19017	2.4741	6.00002
289500	266829	844.30	7.6801	6.38484	5.2586	5.26487	2.4657	5.97547
290000	267186	843.00	7.6556	6.36433	5.3086	5.34011	2.4573	5.95082
290500	267541	841.70	7.6310	6.34379	5.3588	5.41589	2.4489	5.92607
291000	267894	840.40	7.6065	6.32323	5.4092	5.49221	2.4405	5.90122
291500	268245	839.10	7.5819	6.30264	5.4598	5.56907	2.4321	5.87627
292000	268594	837.80	7.5573	6.28203	5.5106	5.64647	2.4237	5.85122
292500	268941	836.50	7.5327	6.26139	5.5616	5.72441	2.4153	5.82607
293000	269286	835.20	7.5081	6.24073	5.6128	5.80289	2.4069	5.80082
293500	269629	833.90	7.4835	6.22004	5.6642	5.88191	2.3985	5.77547
294000	270000	832.60	7.4589	6.19933	5.7158	5.96147	2.3901	5.75002
294500	270369	831.30	7.4343	6.17859	5.7676	6.04157	2.3817	5.72447
295000	270736	830.00	7.4097	6.15783	5.8196	6.12221	2.3733	5.69882
295500	271101	828.70	7.3851	6.13704	5.8718	6.20339	2.3649	5.67317
296000	271464	827.40	7.3604	6.11623	5.9242	6.28511	2.3565	5.64742
296500	271825	826.10	7.3357	6.09539	5.9768	6.36737	2.3481	5.62157
297000	272184	824.80	7.3110	6.07453	6.0296	6.45017	2.3397	5.59562
297500	272541	823.50	7.2863	6.05364	6.0826	6.53351	2.3313	5.56957
298000	272896	822.20	7.2616	6.03273	6.1358	6.61739	2.3229	5.54342
298500	273249	820.90	7.2369	6.01179	6.1892	6.70181	2.3145	5.51717
299000	273600	819.60	7.2122	5.99083	6.2428	6.78677	2.3061	5.49082
299500	273949	818.30	7.1875	5.96984	6.2966	6.87227	2.2977	5.46437
300000	274296	817.00	7.1628	5.94883	6.3506	6.95831	2.2893	5.43782

TABLE VII.—Concluded
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity		
Z, ft	H, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\rho_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\rho_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$	
230000	227491	973.94	9.4502	- 6	8.02570 - 1	1.7908 + 0	1.13896 + 4	3.1482 - 6	7.78925 - 1
230500	227980	972.64	9.4282		8.00747	1.8238	1.15994	3.1402	7.78947
231000	228469	971.31	9.4063		7.98921	1.8575	1.18138	3.1321	7.78967
231500	228958	969.98	9.3843		7.97094	1.8917	1.20326	3.1441	7.72986
232000	229447	968.65	9.3623		7.95265	1.9270	1.22561	3.1360	7.71004
232500	229934	967.32	9.3403		7.93433	1.9629	1.24843	3.1280	7.69021
233000	230425	965.99	9.3182		7.91600	1.9996	1.27175	3.1199	7.67037
233500	230914	964.65	9.2962		7.89768	2.0370	1.29553	3.1118	7.65052
234000	231403	963.31	9.2741		7.87928	2.0752	1.31987	3.1037	7.63068
234500	231892	961.97	9.2520		7.86086	2.1143	1.34471	3.0956	7.61079
235000	232381	960.63	9.2298	- 6	7.84245 - 1	2.1542 + 0	1.37009 + 4	3.0874 - 6	7.59091 - 1
235500	232870	959.29	9.2076		7.82401	2.1950	1.39602	3.0793	7.57102
236000	233357	957.94	9.1854		7.80554	2.2366	1.42250	3.0714	7.55111
236500	233846	956.59	9.1632		7.78706	2.2792	1.44957	3.0633	7.53120
237000	234337	955.25	9.1410		7.76858	2.3226	1.47722	3.0552	7.51128
237500	234825	953.90	9.1187		7.75003	2.3671	1.50547	3.0471	7.49135
238000	235314	952.55	9.0964		7.73149	2.4125	1.53435	3.0390	7.47142
238500	235803	951.19	9.0741		7.71292	2.4589	1.56385	3.0308	7.45147
239000	236292	949.84	9.0517		7.69433	2.5063	1.59401	3.0227	7.43151
239500	236780	948.48	9.0293		7.67572	2.5547	1.62484	3.0146	7.41154
240000	237269	947.12	9.0069	- 6	7.65709 - 1	2.6043 + 0	1.65634 + 4	3.0065 - 6	7.39154 - 1
240500	237758	945.76	9.0845		7.63843	2.6549	1.68855	2.9983	7.37157
241000	238246	944.39	9.0621		7.61974	2.7067	1.72147	2.9902	7.35157
241500	238735	943.03	9.0396		7.60104	2.7596	1.75513	2.9821	7.33154
242000	239224	941.66	9.0171		7.58234	2.8137	1.78954	2.9739	7.31155
242500	239712	940.29	8.9945		7.56360	2.8690	1.82472	2.9658	7.29152
243000	240201	938.92	8.9720		7.54483	2.9256	1.86070	2.9576	7.27148
243500	240689	937.55	8.9494		7.52605	2.9834	1.89749	2.9495	7.25143
244000	241178	936.17	8.9268		7.50725	3.0424	1.93511	2.9413	7.23138
244500	241666	934.80	8.9041		7.48842	3.1031	1.97359	2.9332	7.21131
245000	242155	933.42	8.8815	- 6	7.46957 - 1	3.1650 + 0	2.01294 + 4	2.9250 - 6	7.19124 - 1
245500	242643	932.04	8.8588		7.45069	3.2282	2.05319	2.9168	7.17115
246000	243132	930.67	8.8361		7.43180	3.293	2.09446	2.9087	7.15111
246500	243620	929.30	8.8133		7.41291	3.359	2.1365	2.9006	7.13107
247000	244108	927.93	8.7905		7.39399	3.427	2.1794	2.8925	7.11108
247500	244597	926.55	8.7677		7.37505	3.496	2.2236	2.8844	7.09107
248000	245085	925.18	8.7448		7.35609	3.567	2.2688	2.8763	7.07106
248500	245573	923.80	8.7219		7.33710	3.640	2.3149	2.8682	7.05104
249000	246062	922.43	8.6989		7.31809	3.714	2.3621	2.8601	7.03103
249500	246550	921.05	8.6759		7.29908	3.790	2.4105	2.8521	7.01101
250000	247038	919.68	8.6529	- 6	7.27998 - 1	3.868 + 0	2.4599 + 4	2.8440 - 6	6.99090 - 1
250500	247526	918.31	8.6300		7.26097	3.947	2.5104	2.8359	6.97088
251000	248015	916.94	8.6070		7.24196	4.029	2.5624	2.8277	6.95086
251500	248503	915.57	8.5840		7.22295	4.112	2.6154	2.8196	6.93084
252000	248991	913.99	8.5610		7.20393	4.196	2.6687	2.8115	6.91082
252500	249479	912.55	8.5380		7.18491	4.281	2.7233	2.8034	6.89079
253000	249967	911.11	8.5150		7.16589	4.375	2.7782	2.7953	6.87076
253500	250455	909.7	8.4920		7.14687	4.468	2.8345	2.7872	6.85073
254000	250943	908.2	8.4690		7.12785	4.560	2.8912	2.7791	6.83069
254500	251431	906.8	8.4460		7.10883	4.654	2.9483	2.7710	6.81066
255000	251919	905.4	8.4230	- 6	7.08978 - 1	4.755 + 0	3.0059 + 4	2.7629 - 6	6.79062 - 1
255500	252407	904.0	8.4000		7.07074	4.855	3.0640	2.7548	6.77059
256000	252895	902.6	8.3770		7.05169	4.959	3.1223	2.7467	6.75056
256500	253383	901.1	8.3540		7.03264	5.064	3.2210	2.7386	6.7269
257000	253871	899.7	8.3310		7.01359	5.173	3.2899	2.728	6.7066
257500	254359	898.3	8.3080		6.99454	5.284	3.3605	2.720	6.6863
258000	254847	896.8	8.2850		6.97549	5.397	3.4328	2.711	6.6660
258500	255335	895.4	8.2620		6.95644	5.514	3.5070	2.703	6.6456
259000	255822	894.0	8.2390		6.93739	5.633	3.5829	2.695	6.6253
259500	256310	892.5	8.2160		6.91834	5.754	3.6608	2.687	6.6049
260000	256798	891.1	8.289	- 6	6.89935 - 1	5.881 + 0	3.7406 + 4	2.678 - 6	6.5846 - 1
260500	257286	889.6	8.265		6.87939	6.010	3.8223	2.670	6.5642
261000	257774	888.2	8.242		6.85943	6.142	3.9042	2.662	6.5439
261500	258261	886.7	8.218		6.83947	6.277	3.9921	2.653	6.5235
262000	258749	885.3	8.194		6.81951	6.411	4.0802	2.645	6.5031
262500	259237	884.0	8.173		6.79954	6.546	4.1732	2.637	6.4828
263000	259725	882.6	8.153		6.77957	6.749	4.2921	2.629	6.4624
263500	260213	881.2	8.133		6.75959	6.941	4.4145	2.621	6.4421
264000	260701	880.0	8.113		6.73959	7.139	4.5405	2.613	6.4218
264500	261189	878.6	8.113		6.73959	7.342	4.6697	2.605	6.4014
265000	261675	877.2	8.113	- 6	6.73959 - 1	7.551 + 0	4.8029 + 4	2.598 - 6	6.3811 - 1
265500	262162	875.8	8.113		6.73959	7.747	4.9397	2.590	6.3608
266000	262650	874.4	8.113		6.73959	7.941	5.0805	2.582	6.3404
266500	263137	873.0	8.113		6.73959	8.134	5.2252	2.574	6.3201
267000	263625	871.6	8.113		6.73959	8.328	5.3741	2.566	6.3000
267500	264112	870.2	8.113		6.73959	8.521	5.5273	2.558	6.2797
268000	264599	868.8	8.113		6.73959	8.715	5.6806	2.550	6.2594
268500	265087	867.4	8.113		6.73959	8.909	5.8340	2.542	6.2391
269000	265575	866.0	8.113		6.73959	9.103	5.9873	2.534	6.2188
269500	266062	864.6	8.113		6.73959	9.296	6.1406	2.526	6.1985

TABLE VI.—Concluded
GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
H, ft	Z, ft	C_s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k , BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
270000	273542	884.0	8.173 - 6	6.7974 - 1	1.220 + 1	7.7609 + 6	2.638 - 6	6.4848 - 1
270500	274035	884.0	8.173	6.7974	1.256	7.7070	2.638	6.4848
271000	274528	884.0	8.173	6.7974	1.293	8.2214	2.638	6.4848
271500	275022	884.0	8.173	6.7974	1.330	8.4610	2.638	6.4848
272000	275515	884.0	8.173	6.7974	1.369	8.7092	2.638	6.4848
272500	276008	884.0	8.173	6.7974	1.409	8.9638	2.638	6.4848
273000	276502	884.0	8.173	6.7974	1.451	9.2260	2.638	6.4848
273500	277000	884.0	8.173	6.7974	1.493	9.4957	2.638	6.4848
274000	277500	884.0	8.173	6.7974	1.537	9.7734	2.638	6.4848
274500	278002	884.0	8.173	6.7974	1.582	1.0059 + 5	2.638	6.4848
275000	278505	884.0	8.173 - 6	6.7974 - 1	1.628 + 1	1.0353 + 5	2.638 - 6	6.4848 - 1
275500	279008	884.0	8.173	6.7974	1.675	1.0654	2.638	6.4848
276000	279512	884.0	8.173	6.7974	1.724	1.0960	2.638	6.4848
276500	280016	884.0	8.173	6.7974	1.775	1.1280	2.638	6.4848
277000	280520	884.0	8.173	6.7974	1.827	1.1610	2.638	6.4848
277500	281024	884.0	8.173	6.7974	1.880	1.1958	2.638	6.4848
278000	281528	884.0	8.173	6.7974	1.935	1.2308	2.638	6.4848
278500	282032	884.0	8.173	6.7974	1.992	1.2668	2.638	6.4848
279000	282536	884.0	8.173	6.7974	2.050	1.3038	2.638	6.4848
279500	283040	884.0	8.173	6.7974	2.110	1.3419	2.638	6.4848
280000	283544	884.0	8.173 - 6	6.7974 - 1	2.172 + 1	1.3812 + 5	2.638 - 6	6.4848 - 1
280500	284048	884.0	8.173	6.7974	2.235	1.4215	2.638	6.4848
281000	284552	884.0	8.173	6.7974	2.300	1.4631	2.638	6.4848
281500	285056	884.0	8.173	6.7974	2.368	1.5059	2.638	6.4848
282000	285560	884.0	8.173	6.7974	2.437	1.5499	2.638	6.4848
282500	286064	884.0	8.173	6.7974	2.508	1.5952	2.638	6.4848
283000	286568	884.0	8.173	6.7974	2.582	1.6419	2.638	6.4848
283500	287072	884.0	8.173	6.7974	2.657	1.6899	2.638	6.4848
284000	287576	884.0	8.173	6.7974	2.735	1.7393	2.638	6.4848
284500	288080	884.0	8.173	6.7974	2.815	1.7902	2.638	6.4848
285000	288584	884.0	8.173 - 6	6.7974 - 1	2.897 + 1	1.8425 + 5	2.638 - 6	6.4848 - 1
285500	289088	884.0	8.173	6.7974	2.982	1.8964	2.638	6.4848
286000	289592	884.0	8.173	6.7974	3.069	1.9518	2.638	6.4848
286500	290096	884.0	8.173	6.7974	3.159	2.0089	2.638	6.4848
287000	290600	884.0	8.173	6.7974	3.251	2.0677	2.638	6.4848
287500	291104	884.0	8.173	6.7974	3.346	2.1281	2.638	6.4848
288000	291608	884.0	8.173	6.7974	3.444	2.1903	2.638	6.4848
288500	292112	884.0	8.173	6.7974	3.545	2.2544	2.638	6.4848
289000	292616	884.0	8.173	6.7974	3.648	2.3203	2.638	6.4848
289500	293120	884.0	8.173	6.7974	3.755	2.3882	2.638	6.4848
290000	293624	884.0	8.173 - 6	6.7974 - 1	3.865 + 1	2.4580 + 5	2.638 - 6	6.4848 - 1
290500	294128	884.0	8.173	6.7974	3.978	2.5299	2.638	6.4848
291000	294632	884.0	8.173	6.7974	4.094	2.6038	2.638	6.4848
291500	295136	884.0	8.184	6.8062	4.220	2.6800	2.642	6.4959
292000	295640	885.9	8.205	6.8236	4.372	2.7609	2.649	6.5120
292500	296144	887.1	8.223	6.8391	4.521	2.8756	2.655	6.5280
293000	296648	888.2	8.242	6.8545	4.675	2.9734	2.662	6.5441
293500	297152	889.4	8.260	6.8699	4.833	3.0741	2.668	6.5601
294000	297656	890.5	8.279	6.8853	4.997	3.1781	2.675	6.5761
294500	298160	891.7	8.297	6.9007	5.165	3.2852	2.681	6.5921
295000	298664	892.8	8.316 - 6	6.9161 - 1	5.339 + 1	3.3957 + 5	2.688 - 6	6.6082 - 1
295500	299168	893.9	8.334	6.9316	5.518	3.5095	2.694	6.6242
296000	299672	895.1	8.353	6.9468	5.703	3.6269	2.701	6.6401
296500	300176	896.2	8.371	6.9621	5.893	3.7479	2.707	6.6561
297000	300680	897.4	8.390	6.9774	6.089	3.8724	2.714	6.6721
297500	301184	898.5	8.408	6.9926	6.291	4.0011	2.720	6.6881
298000	301688	899.6	8.426	7.0079	6.499	4.1335	2.727	6.7040
298500	302192	900.7	8.445	7.0231	6.714	4.2700	2.733	6.7200
299000	302696	901.9	8.463	7.0383	6.935	4.4104	2.740	6.7359
299500	303200	903.0	8.481	7.0535	7.163	4.5554	2.746	6.7518
300000	303704	904.1	8.499 - 6	7.0687 - 1	7.397 + 1	4.7046 + 5	2.753 - 6	6.7677 - 1

TABLE VI.—Continued
GEOMETRIC ALTITUDE, ENGLISH UNITS

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Altitude		Sound speed	Coefficient of viscosity		Kinematic viscosity		Thermal conductivity	
Z, ft	H, ft	C _s , ft sec ⁻¹	μ , lb ft ⁻¹ sec ⁻¹	$\frac{\mu}{\mu_0}$	η , ft ² sec ⁻¹	$\frac{\eta}{\eta_0}$	k, BTU ft ⁻¹ sec ⁻¹ (°R) ⁻¹	$\frac{k}{k_0}$
270000	269589	884.0	8.173 - 6	6.7974 - 1	1.008 + 1	6.3608 + 4	2.638 - 6	6.4848 - 1
270500	269708	884.0	8.173	6.7974	1.029	6.3620	2.638	6.4848
271000	269823	884.0	8.173	6.7974	1.058	6.3723	2.638	6.4848
271500	269940	884.0	8.173	6.7974	1.088	6.3820	2.638	6.4848
272000	270058	884.0	8.173	6.7974	1.119	7.1171	2.638	6.4848
272500	270178	884.0	8.173	6.7974	1.151	7.3198	2.638	6.4848
273000	270297	884.0	8.173	6.7974	1.184	7.5282	2.638	6.4848
273500	270418	884.0	8.173	6.7974	1.217	7.7424	2.638	6.4848
274000	270538	884.0	8.173	6.7974	1.252	7.9631	2.638	6.4848
274500	270653	884.0	8.173	6.7974	1.288	8.1899	2.638	6.4848
275000	270762	884.0	8.173 - 6	6.7974 - 1	1.324 + 1	8.4231 + 4	2.638 - 6	6.4848 - 1
275500	270872	884.0	8.173	6.7974	1.362	8.6629	2.638	6.4848
276000	270983	884.0	8.173	6.7974	1.401	8.9095	2.638	6.4848
276500	271092	884.0	8.173	6.7974	1.441	9.1632	2.638	6.4848
277000	271202	884.0	8.173	6.7974	1.482	9.4240	2.638	6.4848
277500	271312	884.0	8.173	6.7974	1.524	9.6923	2.638	6.4848
278000	271422	884.0	8.173	6.7974	1.567	9.9682	2.638	6.4848
278500	271532	884.0	8.173	6.7974	1.612	1.0253 + 5	2.638	6.4848
279000	271642	884.0	8.173	6.7974	1.658	1.0544	2.638	6.4848
279500	271752	884.0	8.173	6.7974	1.705	1.0844	2.638	6.4848
280000	271862	884.0	8.173 - 6	6.7974 - 1	1.754 + 1	1.1152 + 5	2.638 - 6	6.4848 - 1
280500	271972	884.0	8.173	6.7974	1.803	1.1470	2.638	6.4848
281000	272082	884.0	8.173	6.7974	1.855	1.1794	2.638	6.4848
281500	272192	884.0	8.173	6.7974	1.908	1.2132	2.638	6.4848
282000	272302	884.0	8.173	6.7974	1.962	1.2477	2.638	6.4848
282500	272412	884.0	8.173	6.7974	2.018	1.2832	2.638	6.4848
283000	272522	884.0	8.173	6.7974	2.075	1.3197	2.638	6.4848
283500	272632	884.0	8.173	6.7974	2.134	1.3573	2.638	6.4848
284000	272742	884.0	8.173	6.7974	2.195	1.3959	2.638	6.4848
284500	272852	884.0	8.173	6.7974	2.257	1.4354	2.638	6.4848
285000	272962	884.0	8.173 - 6	6.7974 - 1	2.321 + 1	1.4764 + 5	2.638 - 6	6.4848 - 1
285500	273072	884.0	8.173	6.7974	2.387	1.5186	2.638	6.4848
286000	273182	884.0	8.173	6.7974	2.455	1.5616	2.638	6.4848
286500	273292	884.0	8.173	6.7974	2.525	1.6040	2.638	6.4848
287000	273402	884.0	8.173	6.7974	2.597	1.6477	2.638	6.4848
287500	273512	884.0	8.173	6.7974	2.671	1.6927	2.638	6.4848
288000	273622	884.0	8.173	6.7974	2.747	1.7370	2.638	6.4848
288500	273732	884.0	8.173	6.7974	2.825	1.7817	2.638	6.4848
289000	273842	884.0	8.173	6.7974	2.905	1.8278	2.638	6.4848
289500	273952	884.0	8.173	6.7974	2.988	1.8753	2.638	6.4848
290000	274062	884.0	8.173 - 6	6.7974 - 1	3.073 + 1	1.9243 + 5	2.638 - 6	6.4848 - 1
290500	274172	884.0	8.173	6.7974	3.160	2.0099	2.638	6.4848
291000	274282	884.0	8.173	6.7974	3.250	2.0470	2.638	6.4848
291500	274392	884.0	8.173	6.7974	3.342	2.1258	2.638	6.4848
292000	274502	884.0	8.173	6.7974	3.437	2.1662	2.638	6.4848
292500	274612	884.0	8.173	6.7974	3.535	2.2484	2.638	6.4848
293000	274722	884.0	8.173	6.7974	3.636	2.3323	2.638	6.4848
293500	274832	884.0	8.173	6.7974	3.739	2.3780	2.638	6.4848
294000	274942	884.0	8.173	6.7974	3.845	2.4254	2.638	6.4848
294500	275052	884.0	8.173	6.7974	3.955	2.5151	2.638	6.4848
295000	275162	884.0	8.173 - 6	6.7974 - 1	4.067 + 1	2.5866 + 5	2.638 - 6	6.4848 - 1
295500	275272	884.5	8.181	6.8042	4.191	2.6657	2.641	6.4918
296000	275382	885.6	8.199	6.8172	4.331	2.7543	2.647	6.5074
296500	275492	886.7	8.218	6.8362	4.474	2.8454	2.653	6.5230
297000	275602	887.8	8.236	6.8492	4.622	2.9394	2.660	6.5384
297500	275712	889.0	8.254	6.8542	4.774	3.0365	2.666	6.5542
298000	275822	890.1	8.272	6.8702	4.931	3.1364	2.672	6.5698
298500	275932	891.2	8.290	6.8862	5.093	3.2392	2.679	6.5853
299000	276042	892.3	8.308	6.9021	5.260	3.3451	2.685	6.6009
299500	276152	893.4	8.326	6.9240	5.431	3.4543	2.691	6.6164
300000	295745	894.5	8.345 - 6	6.9389 - 1	5.608 + 1	3.5666 + 5	2.498 - 6	6.6320 - 1

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Table VII
GEOPOTENTIAL ALTITUDE IN METERS AS A FUNCTION OF PRESSURE IN
MILLIBARS

TABLE VII

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
8.60										
8.70	31984	31977	31969	31962	31954	31946	31939	31931	31923	31916
8.80	31908	31901	31893	31885	31878	31870	31863	31855	31848	31840
8.90	31833	31824	31818	31810	31803	31795	31788	31780	31773	31765
9.00	31758	31751	31743	31736	31728	31721	31714	31706	31699	31691
9.10	31684	31677	31669	31662	31655	31647	31640	31633	31626	31618
9.20	31611	31604	31597	31589	31582	31575	31568	31560	31553	31545
9.30	31539	31532	31524	31517	31510	31503	31496	31489	31482	31474
9.40	31467	31460	31453	31446	31439	31432	31425	31418	31411	31404
9.50	31397	31390	31383	31376	31369	31362	31355	31348	31341	31334
9.60	31327	31320	31313	31306	31299	31292	31285	31278	31271	31265
9.70	31258	31251	31244	31237	31230	31223	31217	31210	31203	31196
9.80	31189	31182	31176	31169	31162	31155	31149	31142	31135	31128
9.90	31122	31115	31108	31101	31095	31088	31081	31075	31068	31061

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	000	001	002	003	004	005	006	007	008	009
10.00	31055	31044	31041	31035	31028	31021	31015	31008	31002	30995
10.10	30988	30982	30975	30969	30962	30955	30949	30942	30936	30929
10.20	30923	30916	30910	30903	30897	30890	30884	30877	30871	30864
10.30	30858	30851	30845	30838	30832	30825	30819	30813	30806	30800
10.40	30793	30787	30781	30774	30768	30761	30755	30749	30742	30736
10.50	30730	30723	30717	30711	30704	30698	30692	30685	30679	30673
10.60	30667	30660	30654	30648	30642	30635	30629	30623	30617	30610
10.70	30604	30598	30592	30585	30579	30573	30567	30561	30555	30548
10.80	30542	30536	30530	30524	30518	30512	30505	30499	30493	30487
10.90	30481	30475	30469	30463	30457	30451	30444	30438	30432	30426
11.00	30420	30414	30408	30402	30396	30390	30384	30378	30372	30366
11.10	30350	30344	30338	30332	30326	30320	30314	30308	30302	30296
11.20	30280	30274	30268	30262	30256	30250	30244	30238	30232	30226
11.30	30210	30204	30198	30192	30186	30180	30174	30168	30162	30156
11.40	30140	30134	30128	30122	30116	30110	30104	30098	30092	30086
11.50	30070	30064	30058	30052	30046	30040	30034	30028	30022	30016
11.60	30000	29994	29988	29982	29976	29970	29964	29958	29952	29946
11.70	29930	29924	29918	29912	29906	29900	29894	29888	29882	29876
11.80	29860	29854	29848	29842	29836	29830	29824	29818	29812	29806
11.90	29790	29784	29778	29772	29766	29760	29754	29748	29742	29736
12.00	29720	29714	29708	29702	29696	29690	29684	29678	29672	29666
12.10	29650	29644	29638	29632	29626	29620	29614	29608	29602	29596
12.20	29580	29574	29568	29562	29556	29550	29544	29538	29532	29526
12.30	29510	29504	29498	29492	29486	29480	29474	29468	29462	29456
12.40	29440	29434	29428	29422	29416	29410	29404	29398	29392	29386
12.50	29370	29364	29358	29352	29346	29340	29334	29328	29322	29316
12.60	29300	29294	29288	29282	29276	29270	29264	29258	29252	29246
12.70	29230	29224	29218	29212	29206	29200	29194	29188	29182	29176
12.80	29160	29154	29148	29142	29136	29130	29124	29118	29112	29106
12.90	29090	29084	29078	29072	29066	29060	29054	29048	29042	29036
13.00	29020	29014	29008	29002	28996	28990	28984	28978	28972	28966
13.10	28950	28944	28938	28932	28926	28920	28914	28908	28902	28896
13.20	28880	28874	28868	28862	28856	28850	28844	28838	28832	28826
13.30	28810	28804	28798	28792	28786	28780	28774	28768	28762	28756
13.40	28740	28734	28728	28722	28716	28710	28704	28698	28692	28686
13.50	28670	28664	28658	28652	28646	28640	28634	28628	28622	28616
13.60	28600	28594	28588	28582	28576	28570	28564	28558	28552	28546
13.70	28530	28524	28518	28512	28506	28500	28494	28488	28482	28476
13.80	28460	28454	28448	28442	28436	28430	28424	28418	28412	28406
13.90	28390	28384	28378	28372	28366	28360	28354	28348	28342	28336
14.00	28320	28314	28308	28302	28296	28290	28284	28278	28272	28266
14.10	28250	28244	28238	28232	28226	28220	28214	28208	28202	28196
14.20	28180	28174	28168	28162	28156	28150	28144	28138	28132	28126
14.30	28110	28104	28098	28092	28086	28080	28074	28068	28062	28056
14.40	28040	28034	28028	28022	28016	28010	28004	27998	27992	27986
14.50	27970	27964	27958	27952	27946	27940	27934	27928	27922	27916
14.60	27900	27894	27888	27882	27876	27870	27864	27858	27852	27846
14.70	27830	27824	27818	27812	27806	27800	27794	27788	27782	27776
14.80	27760	27754	27748	27742	27736	27730	27724	27718	27712	27706
14.90	27690	27684	27678	27672	27666	27660	27654	27648	27642	27636
15.00	27620	27614	27608	27602	27596	27590	27584	27578	27572	27566
15.10	27550	27544	27538	27532	27526	27520	27514	27508	27502	27496
15.20	27480	27474	27468	27462	27456	27450	27444	27438	27432	27426
15.30	27410	27404	27398	27392	27386	27380	27374	27368	27362	27356
15.40	27340	27334	27328	27322	27316	27310	27304	27298	27292	27286
15.50	27270	27264	27258	27252	27246	27240	27234	27228	27222	27216
15.60	27200	27194	27188	27182	27176	27170	27164	27158	27152	27146
15.70	27130	27124	27118	27112	27106	27100	27094	27088	27082	27076
15.80	27060	27054	27048	27042	27036	27030	27024	27018	27012	27006
15.90	27000	26994	26988	26982	26976	26970	26964	26958	26952	26946
16.00	26930	26924	26918	26912	26906	26900	26894	26888	26882	26876
16.10	26860	26854	26848	26842	26836	26830	26824	26818	26812	26806
16.20	26790	26784	26778	26772	26766	26760	26754	26748	26742	26736
16.30	26720	26714	26708	26702	26696	26690	26684	26678	26672	26666
16.40	26650	26644	26638	26632	26626	26620	26614	26608	26602	26596
16.50	26580	26574	26568	26562	26556	26550	26544	26538	26532	26526
16.60	26510	26504	26498	26492	26486	26480	26474	26468	26462	26456
16.70	26440	26434	26428	26422	26416	26410	26404	26398	26392	26386
16.80	26370	26364	26358	26352	26346	26340	26334	26328	26322	26316
16.90	26300	26294	26288	26282	26276	26270	26264	26258	26252	26246
17.00	26230	26224	26218	26212	26206	26200	26194	26188	26182	26176
17.10	26160	26154	26148	26142	26136	26130	26124	26118	26112	26106
17.20	26090	26084	26078	26072	26066	26060	26054	26048	26042	26036
17.30	26020	26014	26008	26002	25996	25990	25984	25978	25972	25966
17.40	25950	25944	25938	25932	25926	25920	25914	25908	25902	25896
17.50	25880	25874	25868	25862	25856	25850	25844	25838	25832	25826
17.60	25810	25804	25798	25792	25786	25780	25774	25768	25762	25756
17.70	25740	25734	25728	25722	25716	25710	25704	25698	25692	25686
17.80	25670	25664	25658	25652	25646	25640	25634	25628	25622	25616
17.90	25600	25594	25588	25582	25576	25570	25564	25558	25552	25546
18.00	25530	25524	25518	25512	25506	25500	25494	25488	25482	25476
18.10	25460	25454	25448	25442	25436	25430	25424	25418	25412	25406
18.20	25390	25384	25378	25372	25366	25360	25354	25348	25342	25336
18.30	25320	25314	25308	25302	25296	25290	25284	25278	25272	25266
18.40	25250	25244	25238	25232	25226	25220	25214	25208	25202	25196
18.50	25180	25174	25168	25162	25156	25150	25144	25138	25132	25126
18.60	25110	25104	25098	25092	25086	25080	25074	25068	25062	25056
18.70	25040	25034	25028	25022	25016	25010	25004	24998	24992	24986
18.80	24970	24964	24958	24952	24946	24940	24934	24928	24922	24916
18.90	24900	24894	24888	24882	24876	24870	24864	24858	24852	24846
19.00	24830	24824	24818	24812	24806	24800	24794	24788	24782	24776
19.10	24760	24754	24748	24742	24736	24730	24724	24718	24712	24706
19.20	24690	24684	24678	24672	24666	24660	24654	24648	24642	24636
19.30	24620	24614	24608	24602	24596	24590	24584	24578	24572	24566
19.40	24550	24544	24538	24532	24526	24520	24514	24508	24502	24496
19.50	24480	24474	24468	24462	24456	24450	24444	24438	24432	24426
19.60	24410	24404	24398	24392	24386	24380	24374	24368	24362	24356
19.70	24340	24334	24328	24322	24316	24310	24304	24298	24292	24286
19.80	24270	24264	24258	24252	24246	24240	24234	24228	24222	24216
19.90	24200	24194	24188	24182	24176	24170	24164	24158	24152	24146

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P.mb	00	01	02	03	04	05	06	07	08	09
20.0	28481	28449	28416	28384	28352	28320	28288	28257	28225	28194
21.0	28182	28150	28118	28086	28054	28022	27990	27959	27927	27896
22.0	27897	27865	27833	27801	27769	27737	27705	27674	27642	27611
23.0	27616	27584	27552	27520	27488	27456	27424	27393	27361	27330
24.0	27335	27303	27271	27239	27207	27175	27143	27112	27080	27049
25.0	27057	27025	26993	26961	26929	26897	26865	26834	26802	26771
26.0	26776	26744	26712	26680	26648	26616	26584	26553	26521	26490
27.0	26499	26467	26435	26403	26371	26339	26307	26276	26244	26213
28.0	26218	26186	26154	26122	26090	26058	26026	25995	25963	25932
29.0	25941	25909	25877	25845	25813	25781	25749	25718	25686	25655
30.0	25623	25591	25559	25527	25495	25463	25431	25400	25368	25337
31.0	25345	25313	25281	25249	25217	25185	25153	25122	25090	25059
32.0	25067	25035	25003	24971	24939	24907	24875	24844	24812	24781
33.0	24789	24757	24725	24693	24661	24629	24597	24566	24534	24503
34.0	24511	24479	24447	24415	24383	24351	24319	24288	24256	24225
35.0	24233	24201	24169	24137	24105	24073	24041	24010	23978	23947
36.0	23955	23923	23891	23859	23827	23795	23763	23732	23700	23669
37.0	23677	23645	23613	23581	23549	23517	23485	23454	23422	23391
38.0	23399	23367	23335	23303	23271	23239	23207	23176	23144	23113
39.0	23121	23089	23057	23025	22993	22961	22929	22898	22866	22835
40.0	22843	22811	22779	22747	22715	22683	22651	22620	22588	22557
41.0	22565	22533	22501	22469	22437	22405	22373	22342	22310	22279
42.0	22287	22255	22223	22191	22159	22127	22095	22064	22032	22001
43.0	21999	21967	21935	21903	21871	21839	21807	21776	21744	21713
44.0	21721	21689	21657	21625	21593	21561	21529	21498	21466	21435
45.0	21443	21411	21379	21347	21315	21283	21251	21220	21188	21157
46.0	21165	21133	21101	21069	21037	21005	20973	20942	20910	20879
47.0	20887	20855	20823	20791	20759	20727	20695	20664	20632	20601
48.0	20599	20567	20535	20503	20471	20439	20407	20376	20344	20313
49.0	20321	20289	20257	20225	20193	20161	20129	20098	20066	20035
50.0	20003	19971	19939	19907	19875	19843	19811	19780	19748	19717
51.0	19725	19693	19661	19629	19597	19565	19533	19502	19470	19439
52.0	19447	19415	19383	19351	19319	19287	19255	19224	19192	19161
53.0	19179	19147	19115	19083	19051	19019	18987	18956	18924	18893
54.0	18899	18867	18835	18803	18771	18739	18707	18676	18644	18613
55.0	18621	18589	18557	18525	18493	18461	18429	18398	18366	18335
56.0	18343	18311	18279	18247	18215	18183	18151	18120	18088	18057
57.0	18069	18037	18005	17973	17941	17909	17877	17846	17814	17783
58.0	17791	17759	17727	17695	17663	17631	17599	17568	17536	17505
59.0	17513	17481	17449	17417	17385	17353	17321	17290	17258	17227
60.0	17245	17213	17181	17149	17117	17085	17053	17022	16990	16959
61.0	16987	16955	16923	16891	16859	16827	16795	16764	16732	16701
62.0	16729	16697	16665	16633	16601	16569	16537	16506	16474	16443
63.0	16451	16419	16387	16355	16323	16291	16259	16228	16196	16165
64.0	16197	16165	16133	16101	16069	16037	16005	15974	15942	15911
65.0	15929	15897	15865	15833	15801	15769	15737	15706	15674	15643
66.0	15651	15619	15587	15555	15523	15491	15459	15428	15396	15365
67.0	15377	15345	15313	15281	15249	15217	15185	15154	15122	15091
68.0	15103	15071	15039	15007	14975	14943	14911	14880	14848	14817
69.0	14823	14791	14759	14727	14695	14663	14631	14600	14568	14537
70.0	14557	14525	14493	14461	14429	14397	14365	14334	14302	14271
71.0	14281	14249	14217	14185	14153	14121	14089	14058	14026	14013
72.0	14051	14019	13987	13955	13923	13891	13859	13828	13796	13765
73.0	13773	13741	13709	13677	13645	13613	13581	13550	13518	13487
74.0	13495	13463	13431	13399	13367	13335	13303	13272	13240	13209
75.0	13217	13185	13153	13121	13089	13057	13025	12994	12962	12931
76.0	12939	12907	12875	12843	12811	12779	12747	12716	12684	12653
77.0	12661	12629	12597	12565	12533	12501	12469	12438	12406	12375
78.0	12383	12351	12319	12287	12255	12223	12191	12160	12128	12097
79.0	12109	12077	12045	12013	11981	11949	11917	11886	11854	11823
80.0	11831	11799	11767	11735	11703	11671	11639	11608	11576	11545
81.0	11553	11521	11489	11457	11425	11393	11361	11330	11298	11267
82.0	11279	11247	11215	11183	11151	11119	11087	11056	11024	11011
83.0	11033	11001	10969	10937	10905	10873	10841	10810	10778	10747
84.0	10759	10727	10695	10663	10631	10599	10567	10536	10504	10473
85.0	10481	10449	10417	10385	10353	10321	10289	10258	10226	10195
86.0	10207	10175	10143	10111	10079	10047	10015	9984	9952	9921
87.0	9929	9897	9865	9833	9801	9769	9737	9706	9674	9643
88.0	9651	9619	9587	9555	9523	9491	9459	9428	9396	9365
89.0	9373	9341	9309	9277	9245	9213	9181	9150	9118	9087
90.0	9099	9067	9035	9003	8971	8939	8907	8876	8844	8813
91.0	8821	8789	8757	8725	8693	8661	8629	8598	8566	8535
92.0	8543	8511	8479	8447	8415	8383	8351	8320	8288	8257
93.0	8269	8237	8205	8173	8141	8109	8077	8046	8014	7983
94.0	7991	7959	7927	7895	7863	7831	7799	7768	7736	7705
95.0	7713	7681	7649	7617	7585	7553	7521	7490	7458	7427
96.0	7439	7407	7375	7343	7311	7279	7247	7216	7184	7153
97.0	7165	7133	7101	7069	7037	7005	6973	6942	6910	6879
98.0	6895	6863	6831	6799	6767	6735	6703	6672	6640	6609
99.0	6619	6587	6555	6523	6491	6459	6427	6396	6364	6333
100.0	6353	6321	6289	6257	6225	6193	6161	6130	6098	6067
101.0	6081	6049	6017	5985	5953	5921	5889	5858	5826	5795
102.0	5799	5767	5735	5703	5671	5639	5607	5576	5544	5513
103.0	5521	5489	5457	5425	5393	5361	5329	5298	5266	5235
104.0	5243	5211	5179	5147	5115	5083	5051	5020	4988	4957
105.0	4969	4937	4905	4873	4841	4809	4777	4746	4714	4683
106.0	4691	4659	4627	4595	4563	4531	4499	4468	4436	4405
107.0	4417	4385	4353	4321	4289	4257	4225	4194	4162	4131
108.0	4143	4111	4079	4047	4015	3983	3951	3920	3888	3857
109.0	3869	3837	3805	3773	3741	3709	3677	3646	3614	3583
110.0	3591	3559	3527	3495	3463	3431	3399	3368	3336	3305
111.0	3317	3285	3253	3221	3189	3157	3125	3094	3062	3031
112.0	3043	3011	2979	2947	2915	2883	2851	2820	2788	2757
113.0	2769	2737	2705	2673	2641	2609	2577	2546	2514	2483
114.0	2499	2467	2435	2403	2371	2339	2307	2276	2244	2213
115.0	2229	2197	2165	2133	2101	2069	2037	2006	1974	1943
116.0	1959	1927	1895	1863	1831	1799	1767	1736	1704	1673
117.0	1683	1651	1619	1587	1555	1523	1491	1460	1428	1397
118.0	1407	1375	1343	1311	1279	1247	1215	1184	1152	1121
119.0	1135	1103	1071	1039	1007	975	943	912	880	849
120.0	857	825	793	761	729	697	665	634	602	571

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	00	01	02	03	04	05	06	07	08	09
10.0	15023	15018	15013	15008	15002	14997	14992	14987	14981	14974
11.0	14974	14969	14964	14958	14953	14947	14942	14936	14930	14924
12.0	14924	14919	14913	14908	14902	14897	14892	14886	14880	14874
13.0	14874	14869	14864	14858	14853	14847	14842	14836	14830	14824
14.0	14824	14819	14813	14808	14802	14797	14792	14786	14780	14774
15.0	14774	14769	14764	14758	14753	14747	14742	14736	14730	14724
16.0	14724	14719	14713	14708	14702	14697	14692	14686	14680	14674
17.0	14674	14669	14664	14658	14653	14647	14642	14636	14630	14624
18.0	14624	14619	14613	14608	14602	14597	14592	14586	14580	14574
19.0	14574	14569	14564	14558	14553	14547	14542	14536	14530	14524
20.0	14524	14519	14513	14508	14502	14497	14492	14486	14480	14474
21.0	14474	14469	14464	14458	14453	14447	14442	14436	14430	14424
22.0	14424	14419	14413	14408	14402	14397	14392	14386	14380	14374
23.0	14374	14369	14364	14358	14353	14347	14342	14336	14330	14324
24.0	14324	14319	14313	14308	14302	14297	14292	14286	14280	14274
25.0	14274	14269	14264	14258	14253	14247	14242	14236	14230	14224
26.0	14224	14219	14213	14208	14202	14197	14192	14186	14180	14174
27.0	14174	14169	14164	14158	14153	14147	14142	14136	14130	14124
28.0	14124	14119	14113	14108	14102	14097	14092	14086	14080	14074
29.0	14074	14069	14064	14058	14053	14047	14042	14036	14030	14024
30.0	14024	14019	14013	14008	14002	13997	13992	13986	13980	13974
31.0	13974	13969	13964	13958	13953	13947	13942	13936	13930	13924
32.0	13924	13919	13913	13908	13902	13897	13892	13886	13880	13874
33.0	13874	13869	13864	13858	13853	13847	13842	13836	13830	13824
34.0	13824	13819	13813	13808	13802	13797	13792	13786	13780	13774
35.0	13774	13769	13764	13758	13753	13747	13742	13736	13730	13724
36.0	13724	13719	13713	13708	13702	13697	13692	13686	13680	13674
37.0	13674	13669	13664	13658	13653	13647	13642	13636	13630	13624
38.0	13624	13619	13613	13608	13602	13597	13592	13586	13580	13574
39.0	13574	13569	13564	13558	13553	13547	13542	13536	13530	13524
40.0	13524	13519	13513	13508	13502	13497	13492	13486	13480	13474
41.0	13474	13469	13464	13458	13453	13447	13442	13436	13430	13424
42.0	13424	13419	13413	13408	13402	13397	13392	13386	13380	13374
43.0	13374	13369	13364	13358	13353	13347	13342	13336	13330	13324
44.0	13324	13319	13313	13308	13302	13297	13292	13286	13280	13274
45.0	13274	13269	13264	13258	13253	13247	13242	13236	13230	13224
46.0	13224	13219	13213	13208	13202	13197	13192	13186	13180	13174
47.0	13174	13169	13164	13158	13153	13147	13142	13136	13130	13124
48.0	13124	13119	13113	13108	13102	13097	13092	13086	13080	13074
49.0	13074	13069	13064	13058	13053	13047	13042	13036	13030	13024
50.0	13024	13019	13013	13008	13002	12997	12992	12986	12980	12974
51.0	12974	12969	12964	12958	12953	12947	12942	12936	12930	12924
52.0	12924	12919	12913	12908	12902	12897	12892	12886	12880	12874
53.0	12874	12869	12864	12858	12853	12847	12842	12836	12830	12824
54.0	12824	12819	12813	12808	12802	12797	12792	12786	12780	12774
55.0	12774	12769	12764	12758	12753	12747	12742	12736	12730	12724
56.0	12724	12719	12713	12708	12702	12697	12692	12686	12680	12674
57.0	12674	12669	12664	12658	12653	12647	12642	12636	12630	12624
58.0	12624	12619	12613	12608	12602	12597	12592	12586	12580	12574
59.0	12574	12569	12564	12558	12553	12547	12542	12536	12530	12524
60.0	12524	12519	12513	12508	12502	12497	12492	12486	12480	12474
61.0	12474	12469	12464	12458	12453	12447	12442	12436	12430	12424
62.0	12424	12419	12413	12408	12402	12397	12392	12386	12380	12374
63.0	12374	12369	12364	12358	12353	12347	12342	12336	12330	12324
64.0	12324	12319	12313	12308	12302	12297	12292	12286	12280	12274
65.0	12274	12269	12264	12258	12253	12247	12242	12236	12230	12224
66.0	12224	12219	12213	12208	12202	12197	12192	12186	12180	12174
67.0	12174	12169	12164	12158	12153	12147	12142	12136	12130	12124
68.0	12124	12119	12113	12108	12102	12097	12092	12086	12080	12074
69.0	12074	12069	12064	12058	12053	12047	12042	12036	12030	12024
70.0	12024	12019	12013	12008	12002	11997	11992	11986	11980	11974
71.0	11974	11969	11964	11958	11953	11947	11942	11936	11930	11924
72.0	11924	11919	11913	11908	11902	11897	11892	11886	11880	11874
73.0	11874	11869	11864	11858	11853	11847	11842	11836	11830	11824
74.0	11824	11819	11813	11808	11802	11797	11792	11786	11780	11774
75.0	11774	11769	11764	11758	11753	11747	11742	11736	11730	11724
76.0	11724	11719	11713	11708	11702	11697	11692	11686	11680	11674
77.0	11674	11669	11664	11658	11653	11647	11642	11636	11630	11624
78.0	11624	11619	11613	11608	11602	11597	11592	11586	11580	11574
79.0	11574	11569	11564	11558	11553	11547	11542	11536	11530	11524
80.0	11524	11519	11513	11508	11502	11497	11492	11486	11480	11474
81.0	11474	11469	11464	11458	11453	11447	11442	11436	11430	11424
82.0	11424	11419	11413	11408	11402	11397	11392	11386	11380	11374
83.0	11374	11369	11364	11358	11353	11347	11342	11336	11330	11324
84.0	11324	11319	11313	11308	11302	11297	11292	11286	11280	11274
85.0	11274	11269	11264	11258	11253	11247	11242	11236	11230	11224
86.0	11224	11219	11213	11208	11202	11197	11192	11186	11180	11174
87.0	11174	11169	11164	11158	11153	11147	11142	11136	11130	11124
88.0	11124	11119	11113	11108	11102	11097	11092	11086	11080	11074
89.0	11074	11069	11064	11058	11053	11047	11042	11036	11030	11024
90.0	11024	11019	11013	11008	11002	10997	10992	10986	10980	10974
91.0	10974	10969	10964	10958	10953	10947	10942	10936	10930	10924
92.0	10924	10919	10913	10908	10902	10897	10892	10886	10880	10874
93.0	10874	10869	10864	10858	10853	10847	10842	10836	10830	10824
94.0	10824	10819	10813	10808	10802	10797	10792	10786	10780	10774
95.0	10774	10769	10764	10758	10753	10747	10742	10736	10730	10724
96.0	10724	10719	10713	10708	10702	10697	10692	10686	10680	10674
97.0	10674	10669	10664	10658	10653	10647	10642	10636	10630	10624
98.0	10624	10619	10613	10608	10602	10597	10592	10586	10580	10574
99.0	10574	10569	10564	10558	10553	10547	10542	10536	10530	10524
100.0	10524	10519	10513	10508	10502	10497	10492	10486	10480	10474
101.0	10474	10469	10464	10458	10453	10447	10442	10436	10430	10424
102.0	10424	10419	10413	10408	10402	10397	10392	10386	10380	10374
103.0	10374	10369	10364	10358	10353	10347	10342	10336	10330	10324
104.0	10324	10319	10313	10308	10302	10297	10292	10286	10280	10274
105.0	10274	10269	10264	10258	10253	10247	10242	10236	10230	10224
106.0	10224	10219	10213	10208	10202	10197	10192	10186	10180	10174
107.0	10174	10169	10164	10158	10153	10147	10142	10136	10130	10124
108.0	10124	10119	10113	10108	10102	10097	10092	10086	10080	10074
109.0	10074	10069	10064	10058	10053	10047	10042	10036	10030	10024
110.0	10024	10019	10013	10008	10002	9997	9992	9986	9980	9974
111.0	9974	9969	9964	9958	9953	9947	9942	9936	9930	9924
112.0	9924	9919	9913	9908	9902	9897	9892	9886	9880	9874
113.0	9874	9869	9864	9858	9853	9847	9842	9836	9830	9824
114.0	9824	9819	9813	9808	9802	9797	9792	9786	9780	9774
115.0	9774	9769	9764	9758	9753	9747	9742	9736	9730	9724
116.0	9724	9719	9713	9708	9702	9697	9692	9686	9680	9674
117.										

TABLE VII - Continued

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P.m.b	00	01	02	03	04	05	06	07	08	09
220.0	11160	11177	11174	11171	11168	11165	11162	11159	11157	11154
221.0	11161	11168	11174	11171	11168	11165	11162	11159	11157	11154
222.0	11162	11169	11175	11172	11169	11166	11163	11160	11158	11155
223.0	11163	11170	11176	11173	11170	11167	11164	11161	11159	11156
224.0	11164	11171	11177	11174	11171	11168	11165	11162	11160	11157
225.0	11165	11172	11178	11175	11172	11169	11166	11163	11161	11158
226.0	11166	11173	11179	11176	11173	11170	11167	11164	11162	11159
227.0	11167	11174	11180	11177	11174	11171	11168	11165	11163	11160
228.0	11168	11175	11181	11178	11175	11172	11169	11166	11164	11161
229.0	11169	11176	11182	11179	11176	11173	11170	11167	11165	11162
230.0	11170	11177	11183	11180	11177	11174	11171	11168	11166	11163
231.0	11171	11178	11184	11181	11178	11175	11172	11169	11167	11164
232.0	11172	11179	11185	11182	11179	11176	11173	11170	11168	11165
233.0	11173	11180	11186	11183	11180	11177	11174	11171	11169	11166
234.0	11174	11181	11187	11184	11181	11178	11175	11172	11170	11167
235.0	11175	11182	11188	11185	11182	11179	11176	11173	11171	11168
236.0	11176	11183	11189	11186	11183	11180	11177	11174	11172	11169
237.0	11177	11184	11190	11187	11184	11181	11178	11175	11173	11170
238.0	11178	11185	11191	11188	11185	11182	11179	11176	11174	11171
239.0	11179	11186	11192	11189	11186	11183	11180	11177	11175	11172
240.0	11180	11187	11193	11190	11187	11184	11181	11178	11176	11173
241.0	11181	11188	11194	11191	11188	11185	11182	11179	11177	11174
242.0	11182	11189	11195	11192	11189	11186	11183	11180	11178	11175
243.0	11183	11190	11196	11193	11190	11187	11184	11181	11179	11176
244.0	11184	11191	11197	11194	11191	11188	11185	11182	11180	11177
245.0	11185	11192	11198	11195	11192	11189	11186	11183	11181	11178
246.0	11186	11193	11199	11196	11193	11190	11187	11184	11182	11179
247.0	11187	11194	11200	11197	11194	11191	11188	11185	11183	11180
248.0	11188	11195	11201	11198	11195	11192	11189	11186	11184	11181
249.0	11189	11196	11202	11199	11196	11193	11190	11187	11185	11182
250.0	11190	11197	11203	11200	11197	11194	11191	11188	11186	11183
251.0	11191	11198	11204	11201	11198	11195	11192	11189	11187	11184
252.0	11192	11199	11205	11202	11199	11196	11193	11190	11188	11185
253.0	11193	11200	11206	11203	11200	11197	11194	11191	11189	11186
254.0	11194	11201	11207	11204	11201	11198	11195	11192	11190	11187
255.0	11195	11202	11208	11205	11202	11199	11196	11193	11191	11188
256.0	11196	11203	11209	11206	11203	11200	11197	11194	11192	11189
257.0	11197	11204	11210	11207	11204	11201	11198	11195	11193	11190
258.0	11198	11205	11211	11208	11205	11202	11199	11196	11194	11191
259.0	11199	11206	11212	11209	11206	11203	11200	11197	11195	11192
260.0	11200	11207	11213	11210	11207	11204	11201	11198	11196	11193
261.0	11201	11208	11214	11211	11208	11205	11202	11199	11197	11194
262.0	11202	11209	11215	11212	11209	11206	11203	11200	11198	11195
263.0	11203	11210	11216	11213	11210	11207	11204	11201	11199	11196
264.0	11204	11211	11217	11214	11211	11208	11205	11202	11200	11197
265.0	11205	11212	11218	11215	11212	11209	11206	11203	11201	11198
266.0	11206	11213	11219	11216	11213	11210	11207	11204	11202	11199
267.0	11207	11214	11220	11217	11214	11211	11208	11205	11203	11200
268.0	11208	11215	11221	11218	11215	11212	11209	11206	11204	11201
269.0	11209	11216	11222	11219	11216	11213	11210	11207	11205	11202
270.0	11210	11217	11223	11220	11217	11214	11211	11208	11206	11203
271.0	11211	11218	11224	11221	11218	11215	11212	11209	11207	11204
272.0	11212	11219	11225	11222	11219	11216	11213	11210	11208	11205
273.0	11213	11220	11226	11223	11220	11217	11214	11211	11209	11206
274.0	11214	11221	11227	11224	11221	11218	11215	11212	11210	11207
275.0	11215	11222	11228	11225	11222	11219	11216	11213	11211	11208
276.0	11216	11223	11229	11226	11223	11220	11217	11214	11212	11209
277.0	11217	11224	11230	11227	11224	11221	11218	11215	11213	11210
278.0	11218	11225	11231	11228	11225	11222	11219	11216	11214	11211
279.0	11219	11226	11232	11229	11226	11223	11220	11217	11215	11212
280.0	11220	11227	11233	11230	11227	11224	11221	11218	11216	11213
281.0	11221	11228	11234	11231	11228	11225	11222	11219	11217	11214
282.0	11222	11229	11235	11232	11229	11226	11223	11220	11218	11215
283.0	11223	11230	11236	11233	11230	11227	11224	11221	11219	11216
284.0	11224	11231	11237	11234	11231	11228	11225	11222	11220	11217
285.0	11225	11232	11238	11235	11232	11229	11226	11223	11221	11218
286.0	11226	11233	11239	11236	11233	11230	11227	11224	11222	11219
287.0	11227	11234	11240	11237	11234	11231	11228	11225	11223	11220
288.0	11228	11235	11241	11238	11235	11232	11229	11226	11224	11221
289.0	11229	11236	11242	11239	11236	11233	11230	11227	11225	11222
290.0	11230	11237	11243	11240	11237	11234	11231	11228	11226	11223
291.0	11231	11238	11244	11241	11238	11235	11232	11229	11227	11224
292.0	11232	11239	11245	11242	11239	11236	11233	11230	11228	11225
293.0	11233	11240	11246	11243	11240	11237	11234	11231	11229	11226
294.0	11234	11241	11247	11244	11241	11238	11235	11232	11230	11227
295.0	11235	11242	11248	11245	11242	11239	11236	11233	11231	11228
296.0	11236	11243	11249	11246	11243	11240	11237	11234	11232	11229
297.0	11237	11244	11250	11247	11244	11241	11238	11235	11233	11230
298.0	11238	11245	11251	11248	11245	11242	11239	11236	11234	11231
299.0	11239	11246	11252	11249	11246	11243	11240	11237	11235	11232
300.0	11240	11247	11253	11250	11247	11244	11241	11238	11236	11233
301.0	11241	11248	11254	11251	11248	11245	11242	11239	11237	11234
302.0	11242	11249	11255	11252	11249	11246	11243	11240	11238	11235
303.0	11243	11250	11256	11253	11250	11247	11244	11241	11239	11236
304.0	11244	11251	11257	11254	11251	11248	11245	11242	11240	11237
305.0	11245	11252	11258	11255	11252	11249	11246	11243	11241	11238
306.0	11246	11253	11259	11256	11253	11250	11247	11244	11242	11239
307.0	11247	11254	11260	11257	11254	11251	11248	11245	11243	11240
308.0	11248	11255	11261	11258	11255	11252	11249	11246	11244	11241
309.0	11249	11256	11262	11259	11256	11253	11250	11247	11245	11242
310.0	11250	11257	11263	11260	11257	11254	11251	11248	11246	11243
311.0	11251	11258	11264	11261	11258	11255	11252	11249	11247	11244
312.0	11252	11259	11265	11262	11259	11256	11253	11250	11248	11245
313.0	11253	11260	11266	11263	11260	11257	11254	11251	11249	11246
314.0	11254	11261	11267	11264	11261	11258	11255	11252	11250	11247
315.0	11255	11262	11268	11265	11262	11259	11256	11253	11251	11248
316.0	11256	11263	11269	11266	11263	11260	11257	11254	11252	11249
317.0	11257	11264	11270	11267	11264	11261	11258	11255	11253	11250
318.0	11258	11265	11271	11268	11265	11262	11259	11256	11254	11251
319.0	11259	11266	11272	11269	11266	11263	11260	11257	11255	11252
320.0	11260	11267	11273	11270	11267	11264	11261	11258	11256	11253

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P. mb	00	01	02	03	04	05	06	07	08	09
120.0	8729	8727	8724	8723	8721	8717	8717	8715	8713	8710
121.0	8708	8706	8704	8702	8700	8696	8696	8694	8694	8691
122.0	8687	8684	8683	8681	8679	8677	8675	8673	8670	8668
123.0	8666	8664	8662	8660	8658	8656	8654	8652	8649	8647
124.0	8645	8643	8641	8639	8637	8635	8633	8631	8628	8626
125.0	8624	8622	8620	8618	8616	8614	8612	8610	8608	8605
126.0	8603	8601	8599	8597	8595	8593	8591	8589	8587	8585
127.0	8582	8580	8578	8576	8574	8572	8570	8568	8565	8563
128.0	8561	8559	8557	8555	8553	8551	8549	8547	8545	8543
129.0	8540	8538	8536	8534	8532	8530	8528	8526	8524	8522
130.0	8519	8517	8515	8513	8511	8509	8508	8506	8504	8502
131.0	8500	8498	8496	8494	8492	8490	8487	8485	8483	8481
132.0	8479	8477	8475	8473	8471	8469	8467	8465	8463	8461
133.0	8457	8455	8453	8451	8449	8447	8445	8443	8441	8439
134.0	8438	8436	8434	8432	8430	8428	8426	8424	8422	8420
135.0	8418	8416	8414	8412	8410	8408	8406	8404	8402	8400
136.0	8397	8395	8393	8391	8389	8387	8385	8383	8381	8379
137.0	8377	8375	8373	8371	8369	8367	8365	8363	8361	8359
138.0	8357	8355	8353	8351	8349	8347	8345	8343	8341	8339
139.0	8337	8335	8333	8331	8329	8327	8325	8323	8320	8318
140.0	8316	8314	8312	8310	8308	8306	8304	8302	8300	8298
141.0	8296	8294	8292	8290	8288	8286	8284	8282	8280	8278
142.0	8276	8274	8272	8270	8268	8266	8264	8262	8260	8258
143.0	8256	8254	8252	8250	8248	8246	8244	8242	8240	8238
144.0	8236	8234	8232	8230	8228	8226	8224	8222	8220	8218
145.0	8216	8214	8212	8210	8208	8206	8204	8202	8200	8198
146.0	8196	8194	8192	8190	8188	8186	8184	8182	8180	8179
147.0	8177	8175	8173	8171	8169	8167	8165	8163	8161	8159
148.0	8157	8155	8153	8151	8149	8147	8145	8143	8141	8139
149.0	8137	8135	8133	8131	8129	8127	8125	8123	8121	8119
150.0	8117	8115	8113	8111	8109	8107	8105	8103	8102	8100
151.0	8098	8096	8094	8092	8090	8088	8086	8085	8083	8080
152.0	8078	8076	8074	8072	8070	8068	8066	8064	8062	8060
153.0	8058	8056	8054	8053	8051	8049	8047	8045	8043	8041
154.0	8039	8037	8035	8033	8031	8029	8027	8025	8023	8021
155.0	8019	8017	8015	8014	8012	8010	8008	8006	8004	8002
156.0	8000	7998	7996	7994	7992	7990	7988	7986	7984	7982
157.0	7981	7979	7977	7975	7973	7971	7969	7967	7965	7963
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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
420.0	6839	6837	6836	6834	6832	6831	6829	6827	6825	6824
421.0	6822	6820	6819	6817	6815	6814	6812	6810	6808	6807
422.0	6805	6803	6802	6800	6798	6797	6795	6793	6792	6790
423.0	6788	6787	6785	6783	6781	6780	6778	6776	6775	6773
424.0	6771	6770	6768	6766	6765	6763	6761	6760	6758	6756
425.0	6754	6753	6751	6749	6748	6746	6744	6743	6741	6739
426.0	6738	6736	6734	6733	6731	6729	6728	6726	6724	6723
427.0	6721	6719	6718	6716	6714	6713	6711	6709	6708	6706
428.0	6704	6702	6701	6699	6697	6696	6694	6692	6691	6689
429.0	6687	6686	6684	6682	6681	6679	6677	6676	6674	6672
430.0	6671	6669	6667	6666	6664	6662	6661	6659	6657	6656
431.0	6654	6652	6651	6649	6647	6646	6644	6642	6641	6639
432.0	6638	6636	6634	6633	6631	6629	6628	6626	6624	6623
433.0	6621	6619	6618	6616	6614	6613	6611	6609	6608	6606
434.0	6604	6602	6601	6599	6598	6596	6594	6593	6591	6589
435.0	6588	6586	6585	6583	6581	6580	6578	6576	6575	6573
436.0	6571	6570	6568	6566	6565	6563	6561	6560	6558	6557
437.0	6554	6553	6552	6550	6548	6547	6545	6543	6542	6540
438.0	6538	6537	6535	6534	6532	6530	6529	6527	6525	6524
439.0	6522	6520	6519	6517	6516	6514	6512	6511	6509	6507
440.0	6506	6504	6502	6501	6499	6498	6496	6494	6493	6491
441.0	6489	6488	6486	6484	6483	6481	6480	6478	6476	6475
442.0	6473	6471	6470	6468	6467	6465	6463	6462	6460	6458
443.0	6457	6455	6454	6452	6450	6449	6447	6445	6444	6442
444.0	6441	6439	6437	6436	6434	6432	6431	6429	6428	6426
445.0	6424	6423	6421	6419	6418	6416	6415	6413	6411	6410
446.0	6408	6406	6405	6403	6402	6400	6398	6397	6395	6394
447.0	6392	6390	6389	6387	6385	6384	6382	6381	6379	6377
448.0	6376	6374	6373	6371	6369	6368	6366	6365	6363	6361
449.0	6360	6358	6356	6355	6353	6352	6350	6348	6347	6345
450.0	6344	6342	6340	6339	6337	6336	6334	6332	6331	6329
451.0	6328	6326	6324	6323	6321	6320	6318	6316	6315	6313
452.0	6312	6310	6308	6307	6305	6304	6302	6300	6299	6297
453.0	6296	6294	6292	6291	6289	6288	6286	6284	6283	6281
454.0	6280	6278	6276	6275	6273	6272	6270	6268	6267	6265
455.0	6264	6262	6260	6259	6257	6256	6254	6253	6251	6249
456.0	6248	6246	6245	6243	6241	6240	6238	6237	6235	6233
457.0	6232	6230	6229	6227	6226	6224	6222	6221	6219	6218
458.0	6216	6214	6213	6211	6210	6208	6207	6205	6203	6202
459.0	6200	6199	6197	6195	6194	6192	6191	6189	6188	6186
460.0	6184	6183	6181	6180	6178	6177	6175	6173	6172	6170
461.0	6168	6167	6166	6164	6162	6161	6159	6158	6156	6154
462.0	6153	6151	6150	6148	6147	6145	6143	6142	6140	6139
463.0	6137	6136	6134	6133	6131	6129	6128	6126	6125	6123
464.0	6122	6120	6118	6117	6115	6114	6112	6111	6109	6107
465.0	6106	6104	6103	6101	6100	6098	6097	6095	6092	6091
466.0	6090	6088	6087	6086	6084	6082	6081	6079	6078	6076
467.0	6075	6073	6072	6070	6068	6067	6065	6064	6062	6061
468.0	6059	6058	6056	6054	6053	6051	6050	6048	6047	6045
469.0	6044	6042	6040	6039	6037	6036	6034	6033	6031	6030
470.0	6028	6026	6025	6023	6022	6020	6019	6017	6016	6014
471.0	6013	6011	6009	6008	6006	6005	6003	6002	6000	5999
472.0	5997	5996	5994	5992	5991	5989	5988	5986	5985	5983
473.0	5982	5980	5979	5977	5975	5974	5972	5971	5969	5968
474.0	5966	5965	5963	5962	5960	5959	5957	5955	5954	5952
475.0	5951	5949	5948	5946	5945	5943	5942	5940	5939	5937
476.0	5935	5934	5932	5931	5929	5928	5926	5925	5923	5922
477.0	5920	5919	5917	5916	5914	5912	5911	5909	5908	5906
478.0	5905	5903	5902	5900	5899	5897	5896	5894	5893	5891
479.0	5890	5888	5886	5885	5883	5882	5880	5879	5877	5876
480.0	5874	5873	5871	5870	5868	5867	5865	5864	5862	5861
481.0	5859	5858	5856	5854	5853	5851	5850	5848	5847	5845
482.0	5844	5842	5841	5839	5838	5836	5835	5833	5832	5830
483.0	5829	5827	5826	5824	5823	5821	5820	5818	5817	5815
484.0	5814	5812	5810	5809	5807	5806	5804	5803	5801	5800
485.0	5798	5797	5795	5794	5792	5791	5789	5788	5786	5785
486.0	5783	5782	5780	5779	5777	5776	5774	5773	5771	5770
487.0	5768	5767	5765	5764	5762	5761	5759	5758	5756	5755
488.0	5753	5752	5750	5749	5747	5746	5744	5743	5741	5740
489.0	5738	5737	5735	5734	5732	5731	5729	5728	5726	5725
490.0	5723	5722	5720	5719	5717	5716	5714	5713	5711	5710
491.0	5708	5707	5705	5704	5702	5701	5699	5698	5696	5695
492.0	5693	5692	5690	5689	5687	5686	5684	5683	5681	5680
493.0	5678	5677	5675	5674	5672	5671	5669	5668	5666	5665
494.0	5663	5662	5660	5659	5657	5656	5654	5653	5651	5650
495.0	5648	5647	5645	5644	5642	5641	5639	5638	5636	5635
496.0	5634	5632	5631	5629	5628	5626	5625	5623	5622	5620
497.0	5619	5617	5616	5614	5613	5611	5610	5608	5607	5605
498.0	5604	5602	5601	5600	5598	5597	5595	5594	5592	5591
499.0	5589	5588	5586	5585	5583	5582	5580	5579	5577	5576
500.0	5574	5573	5571	5570	5567	5567	5564	5564	5563	5561
501.0	5560	5558	5557	5555	5554	5552	5551	5549	5548	5546
502.0	5544	5544	5542	5541	5539	5538	5536	5535	5533	5532
503.0	5530	5529	5527	5526	5524	5523	5521	5520	5519	5517
504.0	5516	5514	5513	5511	5510	5508	5507	5505	5504	5502
505.0	5501	5500	5498	5497	5495	5494	5492	5491	5489	5488
506.0	5486	5485	5483	5482	5481	5479	5478	5476	5475	5473
507.0	5472	5470	5469	5467	5466	5464	5463	5462	5460	5459
508.0	5457	5456	5454	5453	5451	5450	5448	5447	5446	5444
509.0	5443	5441	5440	5438	5437	5435	5434	5432	5431	5430
510.0	5428	5427	5425	5424	5422	5421	5419	5418	5417	5415
511.0	5414	5412	5411	5409	5408	5406	5405	5403	5402	5401
512.0	5399	5398	5396	5395	5393	5392	5390	5389	5388	5386
513.0	5385	5383	5382	5380	5379	5377	5376	5375	5373	5372
514.0	5370	5369	5367	5366	5364	5363	5362	5360	5359	5357
515.0	5356	5354	5353	5352	5350	5349	5347	5346	5344	5343
516.0	5341	5340	5339	5337	5336	5334	5333	5331	5330	5329
517.0	5327	5326	5324	5323	5321	5320	5318	5317	5316	5314
518.0	5313	5311	5310	5308	5307	5306	5304	5303	5301	5300
519.0	5298	5297	5296	5294	5293	5291	5290	5288	5287	5286

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
520.0	5264	5283	5281	5280	5278	5277	5276	5274	5273	5271
521.0	5270	5288	5286	5285	5283	5282	5281	5279	5278	5276
522.0	5276	5294	5292	5291	5289	5288	5287	5285	5284	5282
523.0	5281	5299	5297	5296	5294	5293	5292	5290	5289	5287
524.0	5287	5305	5303	5302	5300	5299	5298	5296	5295	5293
525.0	5292	5310	5308	5307	5305	5304	5303	5301	5300	5298
526.0	5298	5316	5314	5313	5311	5310	5309	5307	5306	5304
527.0	5303	5321	5319	5318	5316	5315	5314	5312	5311	5309
528.0	5309	5327	5325	5324	5322	5321	5320	5318	5317	5315
529.0	5314	5332	5330	5329	5327	5326	5325	5323	5322	5320
530.0	5319	5337	5335	5334	5332	5331	5330	5328	5327	5325
531.0	5325	5343	5341	5340	5338	5337	5336	5334	5333	5331
532.0	5330	5348	5346	5345	5343	5342	5341	5339	5338	5336
533.0	5336	5354	5352	5351	5349	5348	5347	5345	5344	5342
534.0	5341	5359	5357	5356	5354	5353	5352	5350	5349	5347
535.0	5347	5365	5363	5362	5360	5359	5358	5356	5355	5353
536.0	5352	5370	5368	5367	5365	5364	5363	5361	5360	5358
537.0	5358	5376	5374	5373	5371	5370	5369	5367	5366	5364
538.0	5363	5381	5379	5378	5376	5375	5374	5372	5371	5369
539.0	5369	5387	5385	5384	5382	5381	5380	5378	5377	5375
540.0	5374	5392	5390	5389	5387	5386	5385	5383	5382	5380
541.0	5380	5398	5396	5395	5393	5392	5391	5389	5388	5386
542.0	5385	5403	5401	5400	5398	5397	5396	5394	5393	5391
543.0	5391	5409	5407	5406	5404	5403	5402	5400	5399	5397
544.0	5396	5414	5412	5411	5409	5408	5407	5405	5404	5402
545.0	5402	5420	5418	5417	5415	5414	5413	5411	5410	5408
546.0	5407	5425	5423	5422	5420	5419	5418	5416	5415	5413
547.0	5413	5431	5429	5428	5426	5425	5424	5422	5421	5419
548.0	5418	5436	5434	5433	5431	5430	5429	5427	5426	5424
549.0	5424	5442	5440	5439	5437	5436	5435	5433	5432	5430
550.0	5429	5447	5445	5444	5442	5441	5440	5438	5437	5435
551.0	5435	5453	5451	5450	5448	5447	5446	5444	5443	5441
552.0	5440	5458	5456	5455	5453	5452	5451	5449	5448	5446
553.0	5446	5464	5462	5461	5459	5458	5457	5455	5454	5452
554.0	5451	5469	5467	5466	5464	5463	5462	5460	5459	5457
555.0	5457	5475	5473	5472	5470	5469	5468	5466	5465	5463
556.0	5462	5480	5478	5477	5475	5474	5473	5471	5470	5468
557.0	5468	5486	5484	5483	5481	5480	5479	5477	5476	5474
558.0	5473	5491	5489	5488	5486	5485	5484	5482	5481	5479
559.0	5479	5497	5495	5494	5492	5491	5490	5488	5487	5485
560.0	5484	5502	5500	5499	5497	5496	5495	5493	5492	5490
561.0	5490	5508	5506	5505	5503	5502	5501	5499	5498	5496
562.0	5495	5513	5511	5510	5508	5507	5506	5504	5503	5501
563.0	5501	5519	5517	5516	5514	5513	5512	5510	5509	5507
564.0	5506	5524	5522	5521	5519	5518	5517	5515	5514	5512
565.0	5512	5530	5528	5527	5525	5524	5523	5521	5520	5518
566.0	5517	5535	5533	5532	5530	5529	5528	5526	5525	5523
567.0	5523	5541	5539	5538	5536	5535	5534	5532	5531	5529
568.0	5528	5546	5544	5543	5541	5540	5539	5537	5536	5534
569.0	5534	5552	5550	5549	5547	5546	5545	5543	5542	5540
570.0	5539	5557	5555	5554	5552	5551	5550	5548	5547	5545
571.0	5545	5563	5561	5560	5558	5557	5556	5554	5553	5551
572.0	5550	5568	5566	5565	5563	5562	5561	5559	5558	5556
573.0	5556	5574	5572	5571	5569	5568	5567	5565	5564	5562
574.0	5561	5579	5577	5576	5574	5573	5572	5570	5569	5567
575.0	5567	5585	5583	5582	5580	5579	5578	5576	5575	5573
576.0	5572	5590	5588	5587	5585	5584	5583	5581	5580	5578
577.0	5578	5596	5594	5593	5591	5590	5589	5587	5586	5584
578.0	5583	5601	5599	5598	5596	5595	5594	5592	5591	5589
579.0	5589	5607	5605	5604	5602	5601	5600	5598	5597	5595
580.0	5594	5613	5611	5610	5608	5607	5606	5604	5603	5601
581.0	5600	5618	5616	5615	5613	5612	5611	5609	5608	5606
582.0	5605	5623	5621	5620	5618	5617	5616	5614	5613	5611
583.0	5611	5629	5627	5626	5624	5623	5622	5620	5619	5617
584.0	5616	5634	5632	5631	5629	5628	5627	5625	5624	5622
585.0	5622	5640	5638	5637	5635	5634	5633	5631	5630	5628
586.0	5627	5645	5643	5642	5640	5639	5638	5636	5635	5633
587.0	5633	5651	5649	5648	5646	5645	5644	5642	5641	5639
588.0	5638	5656	5654	5653	5651	5650	5649	5647	5646	5644
589.0	5644	5662	5660	5659	5657	5656	5655	5653	5652	5650
590.0	5649	5667	5665	5664	5662	5661	5660	5658	5657	5655
591.0	5655	5673	5671	5670	5668	5667	5666	5664	5663	5661
592.0	5660	5678	5676	5675	5673	5672	5671	5669	5668	5666
593.0	5666	5684	5682	5681	5679	5678	5677	5675	5674	5672
594.0	5671	5689	5687	5686	5684	5683	5682	5680	5679	5677
595.0	5677	5695	5693	5692	5690	5689	5688	5686	5685	5683
596.0	5682	5700	5698	5697	5695	5694	5693	5691	5690	5688
597.0	5688	5706	5704	5703	5701	5700	5699	5697	5696	5694
598.0	5693	5712	5710	5709	5707	5706	5705	5703	5702	5700
599.0	5699	5718	5716	5715	5713	5712	5711	5709	5708	5706
600.0	5704	5722	5720	5719	5717	5716	5715	5713	5712	5710
601.0	5710	5728	5726	5725	5723	5722	5721	5719	5718	5716
602.0	5715	5733	5731	5730	5728	5727	5726	5724	5723	5721
603.0	5721	5739	5737	5736	5734	5733	5732	5730	5729	5727
604.0	5726	5744	5742	5741	5739	5738	5737	5735	5734	5732
605.0	5732	5750	5748	5747	5745	5744	5743	5741	5740	5738
606.0	5737	5755	5753	5752	5750	5749	5748	5746	5745	5743
607.0	5743	5761	5759	5758	5756	5755	5754	5752	5751	5749
608.0	5748	5764	5762	5761	5759	5758	5757	5755	5754	5752
609.0	5754	5770	5768	5767	5765	5764	5763	5761	5760	5758
610.0	5759	5776	5774	5773	5771	5770	5769	5767	5766	5764
611.0	5765	5782	5780	5779	5777	5776	5775	5773	5772	5770
612.0	5770	5788	5786	5785	5783	5782	5781	5779	5778	5776
613.0	5776	5794	5792	5791	5789	5788	5787	5785	5784	5782
614.0	5781	5800	5798	5797	5795	5794	5793	5791	5790	5788
615.0	5787	5805	5803	5802	5800	5799	5798	5796	5795	5793
616.0	5792	5812	5810	5809	5807	5806	5805	5803	5802	5800
617.0	5798	5818	5816	5815	5813	5812	5811	5809	5808	5806
618.0	5803	5824	5822	5821	5819	5818	5817	5815	5814	5812
619.0	5809	5830	5828	5827	5825	5824	5823	5821	5820	5818

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
620.0	3955	3954	3953	3952	3950	3949	3948	3947	3945	3944
621.0	3953	3952	3950	3949	3948	3947	3946	3945	3943	3942
622.0	3951	3950	3948	3947	3946	3945	3944	3943	3941	3940
623.0	3948	3947	3945	3944	3943	3942	3941	3940	3938	3937
624.0	3946	3945	3943	3942	3941	3940	3939	3938	3936	3935
625.0	3944	3943	3941	3940	3939	3938	3937	3936	3934	3933
626.0	3941	3940	3938	3937	3936	3935	3934	3933	3931	3930
627.0	3939	3938	3936	3935	3934	3933	3932	3931	3929	3928
628.0	3937	3936	3934	3933	3932	3931	3930	3929	3927	3926
629.0	3934	3933	3931	3930	3929	3928	3927	3926	3924	3923
630.0	3932	3931	3929	3928	3927	3926	3925	3924	3922	3921
631.0	3930	3929	3927	3926	3925	3924	3923	3922	3920	3919
632.0	3928	3927	3925	3924	3923	3922	3921	3920	3918	3917
633.0	3926	3925	3923	3922	3921	3920	3919	3918	3916	3915
634.0	3923	3922	3920	3919	3918	3917	3916	3915	3913	3912
635.0	3921	3920	3918	3917	3916	3915	3914	3913	3911	3910
636.0	3919	3918	3916	3915	3914	3913	3912	3911	3909	3908
637.0	3917	3916	3914	3913	3912	3911	3910	3909	3907	3906
638.0	3915	3914	3912	3911	3910	3909	3908	3907	3905	3904
639.0	3913	3912	3910	3909	3908	3907	3906	3905	3903	3902
640.0	3911	3910	3908	3907	3906	3905	3904	3903	3901	3900
641.0	3909	3908	3906	3905	3904	3903	3902	3901	3899	3898
642.0	3907	3906	3904	3903	3902	3901	3900	3899	3897	3896
643.0	3905	3904	3902	3901	3900	3899	3898	3897	3895	3894
644.0	3903	3902	3900	3899	3898	3897	3896	3895	3893	3892
645.0	3901	3900	3898	3897	3896	3895	3894	3893	3891	3890
646.0	3899	3898	3896	3895	3894	3893	3892	3891	3889	3888
647.0	3897	3896	3894	3893	3892	3891	3890	3889	3887	3886
648.0	3895	3894	3892	3891	3890	3889	3888	3887	3885	3884
649.0	3893	3892	3890	3889	3888	3887	3886	3885	3883	3882
650.0	3891	3890	3888	3887	3886	3885	3884	3883	3881	3880
651.0	3889	3888	3886	3885	3884	3883	3882	3881	3879	3878
652.0	3887	3886	3884	3883	3882	3881	3880	3879	3877	3876
653.0	3885	3884	3882	3881	3880	3879	3878	3877	3875	3874
654.0	3883	3882	3880	3879	3878	3877	3876	3875	3873	3872
655.0	3881	3880	3878	3877	3876	3875	3874	3873	3871	3870
656.0	3879	3878	3876	3875	3874	3873	3872	3871	3869	3868
657.0	3877	3876	3874	3873	3872	3871	3870	3869	3867	3866
658.0	3875	3874	3872	3871	3870	3869	3868	3867	3865	3864
659.0	3873	3872	3870	3869	3868	3867	3866	3865	3863	3862
660.0	3871	3870	3868	3867	3866	3865	3864	3863	3861	3860
661.0	3869	3868	3866	3865	3864	3863	3862	3861	3859	3858
662.0	3867	3866	3864	3863	3862	3861	3860	3859	3857	3856
663.0	3865	3864	3862	3861	3860	3859	3858	3857	3855	3854
664.0	3863	3862	3860	3859	3858	3857	3856	3855	3853	3852
665.0	3861	3860	3858	3857	3856	3855	3854	3853	3851	3850
666.0	3859	3858	3856	3855	3854	3853	3852	3851	3849	3848
667.0	3857	3856	3854	3853	3852	3851	3850	3849	3847	3846
668.0	3855	3854	3852	3851	3850	3849	3848	3847	3845	3844
669.0	3853	3852	3850	3849	3848	3847	3846	3845	3843	3842
670.0	3851	3850	3848	3847	3846	3845	3844	3843	3841	3840
671.0	3849	3848	3846	3845	3844	3843	3842	3841	3839	3838
672.0	3847	3846	3844	3843	3842	3841	3840	3839	3837	3836
673.0	3845	3844	3842	3841	3840	3839	3838	3837	3835	3834
674.0	3843	3842	3840	3839	3838	3837	3836	3835	3833	3832
675.0	3841	3840	3838	3837	3836	3835	3834	3833	3831	3830
676.0	3839	3838	3836	3835	3834	3833	3832	3831	3829	3828
677.0	3837	3836	3834	3833	3832	3831	3830	3829	3827	3826
678.0	3835	3834	3832	3831	3830	3829	3828	3827	3825	3824
679.0	3833	3832	3830	3829	3828	3827	3826	3825	3823	3822
680.0	3831	3830	3828	3827	3826	3825	3824	3823	3821	3820
681.0	3829	3828	3826	3825	3824	3823	3822	3821	3819	3818
682.0	3827	3826	3824	3823	3822	3821	3820	3819	3817	3816
683.0	3825	3824	3822	3821	3820	3819	3818	3817	3815	3814
684.0	3823	3822	3820	3819	3818	3817	3816	3815	3813	3812
685.0	3821	3820	3818	3817	3816	3815	3814	3813	3811	3810
686.0	3819	3818	3816	3815	3814	3813	3812	3811	3809	3808
687.0	3817	3816	3814	3813	3812	3811	3810	3809	3807	3806
688.0	3815	3814	3812	3811	3810	3809	3808	3807	3805	3804
689.0	3813	3812	3810	3809	3808	3807	3806	3805	3803	3802
690.0	3811	3810	3808	3807	3806	3805	3804	3803	3801	3800
691.0	3809	3808	3806	3805	3804	3803	3802	3801	3799	3798
692.0	3807	3806	3804	3803	3802	3801	3800	3799	3797	3796
693.0	3805	3804	3802	3801	3800	3799	3798	3797	3795	3794
694.0	3803	3802	3800	3799	3798	3797	3796	3795	3793	3792
695.0	3801	3800	3798	3797	3796	3795	3794	3793	3791	3790
696.0	3799	3798	3796	3795	3794	3793	3792	3791	3789	3788
697.0	3797	3796	3794	3793	3792	3791	3790	3789	3787	3786
698.0	3795	3794	3792	3791	3790	3789	3788	3787	3785	3784
699.0	3793	3792	3790	3789	3788	3787	3786	3785	3783	3782
700.0	3791	3790	3788	3787	3786	3785	3784	3783	3781	3780
701.0	3789	3788	3786	3785	3784	3783	3782	3781	3779	3778
702.0	3787	3786	3784	3783	3782	3781	3780	3779	3777	3776
703.0	3785	3784	3782	3781	3780	3779	3778	3777	3775	3774
704.0	3783	3782	3780	3779	3778	3777	3776	3775	3773	3772
705.0	3781	3780	3778	3777	3776	3775	3774	3773	3771	3770
706.0	3779	3778	3776	3775	3774	3773	3772	3771	3769	3768
707.0	3777	3776	3774	3773	3772	3771	3770	3769	3767	3766
708.0	3775	3774	3772	3771	3770	3769	3768	3767	3765	3764
709.0	3773	3772	3770	3769	3768	3767	3766	3765	3763	3762
710.0	3771	3770	3768	3767	3766	3765	3764	3763	3761	3760
711.0	3769	3768	3766	3765	3764	3763	3762	3761	3759	3758
712.0	3767	3766	3764	3763	3762	3761	3760	3759	3757	3756
713.0	3765	3764	3762	3761	3760	3759	3758	3757	3755	3754
714.0	3763	3762	3760	3759	3758	3757	3756	3755	3753	3752
715.0	3761	3760	3758	3757	3756	3755	3754	3753	3751	3750
716.0	3759	3758	3756	3755	3754	3753	3752	3751	3749	3748
717.0	3757	3756	3754	3753	3752	3751	3750	3749	3747	3746
718.0	3755	3754	3752	3751	3750	3749	3748	3747	3745	3744
719.0	3753	3752	3750	3749	3748	3747	3746	3745	3743	3742

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
720.0	2790	2789	2788	2787	2786	2785	2784	2782	2781	2780
721.0	2779	2778	2777	2776	2775	2774	2773	2771	2770	2769
722.0	2768	2767	2766	2765	2764	2763	2762	2761	2759	2758
723.0	2757	2756	2755	2754	2753	2752	2751	2750	2748	2747
724.0	2746	2745	2744	2743	2742	2741	2740	2739	2738	2736
725.0	2735	2734	2733	2732	2731	2730	2729	2728	2727	2726
726.0	2724	2723	2722	2721	2720	2719	2718	2717	2716	2715
727.0	2714	2713	2712	2711	2710	2709	2708	2707	2706	2704
728.0	2703	2702	2701	2700	2699	2698	2697	2696	2694	2693
729.0	2692	2691	2690	2689	2688	2687	2686	2685	2684	2682
730.0	2681	2680	2679	2678	2677	2676	2675	2673	2672	2671
731.0	2670	2669	2668	2667	2666	2665	2664	2663	2661	2660
732.0	2659	2658	2657	2656	2655	2654	2653	2652	2651	2650
733.0	2648	2647	2646	2645	2644	2643	2642	2641	2640	2639
734.0	2638	2637	2636	2635	2634	2633	2632	2631	2630	2629
735.0	2627	2626	2625	2624	2623	2622	2621	2620	2619	2618
736.0	2616	2615	2614	2613	2612	2611	2610	2609	2607	2606
737.0	2605	2604	2603	2602	2601	2600	2599	2598	2597	2596
738.0	2594	2593	2592	2591	2590	2589	2588	2587	2586	2585
739.0	2584	2583	2582	2581	2579	2578	2577	2576	2575	2574
740.0	2573	2572	2571	2570	2569	2568	2567	2565	2564	2563
741.0	2562	2561	2560	2559	2558	2557	2556	2555	2554	2553
742.0	2551	2550	2549	2548	2547	2546	2545	2544	2543	2542
743.0	2541	2540	2539	2538	2537	2536	2535	2534	2533	2532
744.0	2530	2529	2528	2527	2526	2525	2524	2523	2522	2521
745.0	2519	2518	2517	2516	2515	2514	2513	2512	2511	2510
746.0	2509	2508	2507	2506	2505	2504	2503	2502	2501	2500
747.0	2498	2497	2496	2495	2494	2493	2492	2491	2490	2489
748.0	2487	2486	2485	2484	2483	2482	2481	2480	2479	2478
749.0	2477	2476	2475	2474	2473	2472	2471	2470	2469	2468
750.0	2466	2465	2464	2463	2462	2461	2460	2459	2458	2457
751.0	2456	2455	2454	2453	2452	2451	2450	2449	2448	2447
752.0	2445	2444	2443	2442	2441	2440	2439	2438	2437	2436
753.0	2434	2433	2432	2431	2430	2429	2428	2427	2426	2425
754.0	2424	2423	2422	2421	2420	2419	2418	2417	2416	2415
755.0	2413	2412	2411	2410	2409	2408	2407	2406	2405	2404
756.0	2403	2402	2401	2400	2399	2398	2397	2396	2395	2394
757.0	2392	2391	2390	2389	2388	2387	2386	2385	2384	2383
758.0	2382	2381	2380	2379	2378	2377	2376	2375	2374	2373
759.0	2371	2370	2369	2368	2367	2366	2365	2364	2363	2362
760.0	2361	2360	2359	2358	2357	2356	2355	2354	2353	2352
761.0	2350	2349	2348	2347	2346	2345	2344	2343	2342	2341
762.0	2340	2339	2338	2337	2336	2335	2334	2333	2332	2331
763.0	2329	2328	2327	2326	2325	2324	2323	2322	2321	2320
764.0	2318	2317	2316	2315	2314	2313	2312	2311	2310	2309
765.0	2308	2307	2306	2305	2304	2303	2302	2301	2300	2299
766.0	2297	2296	2295	2294	2293	2292	2291	2290	2289	2288
767.0	2287	2286	2285	2284	2283	2282	2281	2280	2279	2278
768.0	2277	2276	2275	2274	2273	2272	2271	2270	2269	2268
769.0	2266	2265	2264	2263	2262	2261	2260	2259	2258	2257
770.0	2256	2255	2254	2253	2252	2251	2250	2249	2248	2247
771.0	2246	2245	2244	2243	2242	2241	2240	2239	2238	2237
772.0	2235	2234	2233	2232	2231	2230	2229	2228	2227	2226
773.0	2225	2224	2223	2222	2221	2220	2219	2218	2217	2216
774.0	2215	2214	2213	2212	2211	2210	2209	2208	2207	2206
775.0	2204	2203	2202	2201	2200	2199	2198	2197	2196	2195
776.0	2194	2193	2192	2191	2190	2189	2188	2187	2186	2185
777.0	2184	2183	2182	2181	2180	2179	2178	2177	2176	2175
778.0	2173	2172	2171	2170	2169	2168	2167	2166	2165	2164
779.0	2163	2162	2161	2160	2159	2158	2157	2156	2155	2154
780.0	2153	2152	2151	2150	2149	2148	2147	2146	2145	2144
781.0	2142	2141	2140	2139	2138	2137	2136	2135	2134	2133
782.0	2132	2131	2130	2129	2128	2127	2126	2125	2124	2123
783.0	2122	2121	2120	2119	2118	2117	2116	2115	2114	2113
784.0	2112	2111	2110	2109	2108	2107	2106	2105	2104	2103
785.0	2101	2100	2099	2098	2097	2096	2095	2094	2093	2092
786.0	2091	2090	2089	2088	2087	2086	2085	2084	2083	2082
787.0	2081	2080	2079	2078	2077	2076	2075	2074	2073	2072
788.0	2071	2070	2069	2068	2067	2066	2065	2064	2063	2062
789.0	2060	2059	2058	2057	2056	2055	2054	2053	2052	2051
790.0	2050	2049	2048	2047	2046	2045	2044	2043	2042	2041
791.0	2040	2039	2038	2037	2036	2035	2034	2033	2032	2031
792.0	2030	2029	2028	2027	2026	2025	2024	2023	2022	2021
793.0	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
794.0	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
795.0	2000	1999	1997	1996	1995	1994	1993	1992	1991	1990
796.0	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
797.0	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
798.0	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
799.0	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
800.0	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940
801.0	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930
802.0	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
803.0	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910
804.0	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900
805.0	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890
806.0	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880
807.0	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870
808.0	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860
809.0	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850
810.0	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840
811.0	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830
812.0	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820
813.0	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810
814.0	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800
815.0	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790
816.0	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780
817.0	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770
818.0	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760
819.0	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P,mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
820.0	1749	1748	1747	1746	1745	1744	1743	1742	1742	1741
821.0	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731
822.0	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721
823.0	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711
824.0	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701
825.0	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691
826.0	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681
827.0	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671
828.0	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661
829.0	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651
830.0	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642
831.0	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632
832.0	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623
833.0	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613
834.0	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603
835.0	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593
836.0	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584
837.0	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574
838.0	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564
839.0	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554
840.0	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545
841.0	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535
842.0	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525
843.0	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515
844.0	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505
845.0	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495
846.0	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486
847.0	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476
848.0	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466
849.0	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456
850.0	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448
851.0	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439
852.0	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429
853.0	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419
854.0	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410
855.0	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400
856.0	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391
857.0	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381
858.0	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372
859.0	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362
860.0	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353
861.0	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343
862.0	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334
863.0	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324
864.0	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315
865.0	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305
866.0	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295
867.0	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286
868.0	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276
869.0	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268
870.0	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258
871.0	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248
872.0	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239
873.0	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230
874.0	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221
875.0	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211
876.0	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202
877.0	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192
878.0	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182
879.0	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172
880.0	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164
881.0	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155
882.0	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145
883.0	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136
884.0	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127
885.0	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118
886.0	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109
887.0	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099
888.0	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090
889.0	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081
890.0	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072
891.0	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062
892.0	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053
893.0	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044
894.0	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035
895.0	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025
896.0	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016
897.0	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007
898.0	1007	1006	1005	1004	1003	1002	1001	1000	999	998
899.0	998	997	996	995	994	993	992	991	990	989
900.0	989	988	987	986	985	984	983	982	981	980
901.0	979	978	977	976	975	974	973	972	971	970
902.0	970	969	968	967	966	965	964	963	962	961
903.0	961	960	959	958	957	956	955	954	953	952
904.0	952	951	950	949	948	947	946	945	944	943
905.0	943	942	941	940	939	938	937	936	935	934
906.0	934	933	932	931	930	929	928	927	926	925
907.0	925	924	923	922	921	920	919	918	917	916
908.0	915	914	913	912	911	910	909	908	907	906
909.0	906	905	904	903	902	901	900	899	898	897
910.0	897	896	895	894	893	892	891	890	889	888
911.0	888	887	886	885	884	883	882	881	880	879
912.0	879	878	877	876	875	874	873	872	871	870
913.0	870	869	868	867	866	865	864	863	862	861
914.0	861	860	859	858	857	856	855	854	853	852
915.0	852	851	850	849	848	847	846	845	844	843
916.0	843	842	841	840	839	838	837	836	835	834
917.0	834	833	832	831	830	829	828	827	826	825
918.0	825	824	823	822	821	820	819	818	817	816
919.0	816	815	814	813	812	811	810	809	808	807

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
920.0	807	806	805	804	803	802	801	801	800	799
921.0	798	797	796	795	794	793	792	792	791	790
922.0	789	788	787	786	785	784	783	783	782	781
923.0	780	779	778	777	776	775	774	774	773	772
924.0	771	770	769	768	767	766	765	765	764	763
925.0	762	761	760	759	758	757	756	756	755	754
926.0	753	752	751	750	749	748	747	747	746	745
927.0	744	743	742	741	740	739	738	738	737	736
928.0	735	734	733	732	731	730	729	729	728	727
929.0	726	725	724	723	722	721	720	720	719	718
930.0	717	716	715	714	713	712	711	711	710	709
931.0	708	707	706	705	704	703	702	702	701	700
932.0	699	698	697	696	695	694	693	693	692	691
933.0	691	690	689	688	687	686	685	685	684	683
934.0	682	681	680	679	678	677	676	676	675	674
935.0	673	672	671	670	669	668	667	667	666	665
936.0	664	663	662	661	660	659	658	658	657	656
937.0	655	654	653	652	651	650	649	649	648	647
938.0	646	645	644	643	642	641	640	640	639	638
939.0	637	636	635	634	633	632	631	631	630	629
940.0	628	627	626	625	624	623	622	622	621	620
941.0	619	618	617	616	615	614	613	613	612	611
942.0	611	610	609	608	607	606	605	605	604	603
943.0	602	601	600	599	598	597	596	596	595	594
944.0	593	592	591	590	589	588	587	587	586	585
945.0	584	583	582	581	580	579	578	578	577	576
946.0	575	574	573	572	571	570	569	569	568	567
947.0	567	566	565	564	563	562	561	561	560	559
948.0	558	557	556	555	554	553	552	552	551	550
949.0	549	548	547	546	545	544	543	543	542	541
950.0	540	539	538	537	536	535	534	533	532	531
951.0	531	530	529	528	527	526	525	525	524	523
952.0	523	522	521	520	519	518	517	517	516	515
953.0	514	513	512	511	510	509	508	508	507	506
954.0	505	504	503	502	501	500	499	499	498	497
955.0	497	496	495	494	493	492	491	490	489	488
956.0	488	487	486	485	484	483	482	482	481	480
957.0	479	478	477	476	475	474	473	473	472	471
958.0	470	469	468	467	466	465	464	464	463	462
959.0	462	461	460	459	458	457	456	456	455	454
960.0	453	452	451	450	449	448	447	446	445	444
961.0	444	443	442	441	440	439	438	437	436	435
962.0	436	435	434	433	432	431	430	429	428	427
963.0	427	426	425	424	423	422	421	420	419	418
964.0	418	417	416	415	414	413	412	411	410	409
965.0	410	409	408	407	406	405	404	403	402	401
966.0	401	400	399	398	397	396	395	394	393	392
967.0	392	391	390	389	388	387	386	385	384	383
968.0	384	383	382	381	380	379	378	377	376	375
969.0	375	374	373	372	371	370	369	368	367	366
970.0	366	365	364	363	362	361	360	359	358	357
971.0	358	357	356	355	354	353	352	351	350	349
972.0	349	348	347	346	345	344	343	342	341	340
973.0	341	340	339	338	337	336	335	334	333	332
974.0	332	331	330	329	328	327	326	325	324	323
975.0	323	322	321	320	319	318	317	316	315	314
976.0	315	314	313	312	311	310	309	308	307	306
977.0	306	305	304	303	302	301	300	299	298	297
978.0	298	297	296	295	294	293	292	291	290	289
979.0	289	288	287	286	285	284	283	282	281	280
980.0	281	280	279	278	277	276	275	274	273	272
981.0	272	271	270	269	268	267	266	265	264	263
982.0	263	262	261	260	259	258	257	256	255	254
983.0	255	254	253	252	251	250	249	248	247	246
984.0	246	245	244	243	242	241	240	239	238	237
985.0	237	236	235	234	233	232	231	230	229	228
986.0	229	228	227	226	225	224	223	222	221	220
987.0	221	220	219	218	217	216	215	214	213	212
988.0	212	211	210	209	208	207	206	205	204	203
989.0	204	203	202	201	200	199	198	197	196	195
990.0	195	194	193	192	191	190	189	188	187	186
991.0	187	186	185	184	183	182	181	180	179	178
992.0	178	177	176	175	174	173	172	171	170	169
993.0	170	169	168	167	166	165	164	163	162	161
994.0	161	160	159	158	157	156	155	154	153	152
995.0	153	152	151	150	149	148	147	146	145	144
996.0	144	143	142	141	140	139	138	137	136	135
997.0	136	135	134	133	132	131	130	129	128	127
998.0	128	127	126	125	124	123	122	121	120	119
999.0	119	118	117	116	115	114	113	112	111	110
1000.0	111	110	109	108	107	106	105	104	103	102
1001.0	102	101	100	99	98	97	96	95	94	93
1002.0	94	93	92	91	90	89	88	87	86	85
1003.0	86	85	84	83	82	81	80	79	78	77
1004.0	77	76	75	74	73	72	71	70	69	68
1005.0	69	68	67	66	65	64	63	62	61	60
1006.0	61	60	59	58	57	56	55	54	53	52
1007.0	52	51	50	49	48	47	46	45	44	43
1008.0	44	43	42	41	40	39	38	37	36	35
1009.0	35	34	33	32	31	30	29	28	27	26
1010.0	27	26	25	24	23	22	21	20	19	18
1011.0	19	18	17	16	15	14	13	12	11	10
1012.0	10	9	8	7	6	5	4	3	2	1
1013.0	2	1	0	-1	-2	-3	-4	-5	-6	-7
1014.0	-5	-7	-8	-9	-10	-11	-12	-13	-14	-15
1015.0	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24
1016.0	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32
1017.0	-31	-32	-33	-34	-35	-36	-37	-38	-39	-40
1018.0	-39	-40	-41	-42	-43	-44	-45	-46	-47	-48
1019.0	-48	-49	-50	-51	-52	-53	-54	-55	-56	-57

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	00	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1020.0	-56	-57	-58	-59	-59	-60	-61	-62	-63	-63
1021.0	-64	-65	-66	-67	-68	-68	-69	-70	-71	-72
1022.0	-71	-72	-73	-74	-75	-76	-77	-78	-79	-80
1023.0	-78	-79	-80	-81	-82	-83	-84	-85	-86	-87
1024.0	-85	-86	-87	-88	-89	-90	-91	-92	-93	-94
1025.0	-92	-93	-94	-95	-96	-97	-98	-99	-100	-101
1026.0	-100	-101	-102	-103	-104	-105	-106	-107	-108	-109
1027.0	-108	-109	-110	-111	-112	-113	-114	-115	-116	-117
1028.0	-116	-117	-118	-119	-120	-121	-122	-123	-124	-125
1029.0	-125	-126	-127	-128	-129	-130	-131	-132	-133	-134
1030.0	-134	-135	-136	-137	-138	-139	-140	-141	-142	-143
1031.0	-143	-144	-145	-146	-147	-148	-149	-150	-151	-152
1032.0	-152	-153	-154	-155	-156	-157	-158	-159	-160	-161
1033.0	-161	-162	-163	-164	-165	-166	-167	-168	-169	-170
1034.0	-170	-171	-172	-173	-174	-175	-176	-177	-178	-179
1035.0	-179	-180	-181	-182	-183	-184	-185	-186	-187	-188
1036.0	-188	-189	-190	-191	-192	-193	-194	-195	-196	-197
1037.0	-197	-198	-199	-200	-201	-202	-203	-204	-205	-206
1038.0	-206	-207	-208	-209	-210	-211	-212	-213	-214	-215
1039.0	-215	-216	-217	-218	-219	-220	-221	-222	-223	-224
1040.0	-224	-225	-226	-227	-228	-229	-230	-231	-232	-233
1041.0	-233	-234	-235	-236	-237	-238	-239	-240	-241	-242
1042.0	-242	-243	-244	-245	-246	-247	-248	-249	-250	-251
1043.0	-251	-252	-253	-254	-255	-256	-257	-258	-259	-260
1044.0	-260	-261	-262	-263	-264	-265	-266	-267	-268	-269
1045.0	-269	-270	-271	-272	-273	-274	-275	-276	-277	-278
1046.0	-278	-279	-280	-281	-282	-283	-284	-285	-286	-287
1047.0	-287	-288	-289	-290	-291	-292	-293	-294	-295	-296
1048.0	-296	-297	-298	-299	-300	-301	-302	-303	-304	-305
1049.0	-305	-306	-307	-308	-309	-310	-311	-312	-313	-314
1050.0	-314	-315	-316	-317	-318	-319	-320	-321	-322	-323
1051.0	-323	-324	-325	-326	-327	-328	-329	-330	-331	-332
1052.0	-332	-333	-334	-335	-336	-337	-338	-339	-340	-341
1053.0	-341	-342	-343	-344	-345	-346	-347	-348	-349	-350
1054.0	-350	-351	-352	-353	-354	-355	-356	-357	-358	-359
1055.0	-359	-360	-361	-362	-363	-364	-365	-366	-367	-368
1056.0	-368	-369	-370	-371	-372	-373	-374	-375	-376	-377
1057.0	-377	-378	-379	-380	-381	-382	-383	-384	-385	-386
1058.0	-386	-387	-388	-389	-390	-391	-392	-393	-394	-395
1059.0	-395	-396	-397	-398	-399	-400	-401	-402	-403	-404
1060.0	-404	-405	-406	-407	-408	-409	-410	-411	-412	-413
1061.0	-413	-414	-415	-416	-417	-418	-419	-420	-421	-422
1062.0	-422	-423	-424	-425	-426	-427	-428	-429	-430	-431
1063.0	-431	-432	-433	-434	-435	-436	-437	-438	-439	-440
1064.0	-440	-441	-442	-443	-444	-445	-446	-447	-448	-449
1065.0	-449	-450	-451	-452	-453	-454	-455	-456	-457	-458
1066.0	-458	-459	-460	-461	-462	-463	-464	-465	-466	-467
1067.0	-467	-468	-469	-470	-471	-472	-473	-474	-475	-476
1068.0	-476	-477	-478	-479	-480	-481	-482	-483	-484	-485
1069.0	-485	-486	-487	-488	-489	-490	-491	-492	-493	-494
1070.0	-494	-495	-496	-497	-498	-499	-500	-501	-502	-503
1071.0	-503	-504	-505	-506	-507	-508	-509	-510	-511	-512
1072.0	-512	-513	-514	-515	-516	-517	-518	-519	-520	-521
1073.0	-521	-522	-523	-524	-525	-526	-527	-528	-529	-530
1074.0	-530	-531	-532	-533	-534	-535	-536	-537	-538	-539
1075.0	-539	-540	-541	-542	-543	-544	-545	-546	-547	-548
1076.0	-548	-549	-550	-551	-552	-553	-554	-555	-556	-557
1077.0	-557	-558	-559	-560	-561	-562	-563	-564	-565	-566
1078.0	-566	-567	-568	-569	-570	-571	-572	-573	-574	-575
1079.0	-575	-576	-577	-578	-579	-580	-581	-582	-583	-584
1080.0	-584	-585	-586	-587	-588	-589	-590	-591	-592	-593
1081.0	-593	-594	-595	-596	-597	-598	-599	-600	-601	-602
1082.0	-602	-603	-604	-605	-606	-607	-608	-609	-610	-611
1083.0	-611	-612	-613	-614	-615	-616	-617	-618	-619	-620
1084.0	-620	-621	-622	-623	-624	-625	-626	-627	-628	-629
1085.0	-629	-630	-631	-632	-633	-634	-635	-636	-637	-638
1086.0	-638	-639	-640	-641	-642	-643	-644	-645	-646	-647
1087.0	-647	-648	-649	-650	-651	-652	-653	-654	-655	-656
1088.0	-656	-657	-658	-659	-660	-661	-662	-663	-664	-665
1089.0	-665	-666	-667	-668	-669	-670	-671	-672	-673	-674
1090.0	-674	-675	-676	-677	-678	-679	-680	-681	-682	-683
1091.0	-683	-684	-685	-686	-687	-688	-689	-690	-691	-692
1092.0	-692	-693	-694	-695	-696	-697	-698	-699	-700	-701
1093.0	-701	-702	-703	-704	-705	-706	-707	-708	-709	-710
1094.0	-710	-711	-712	-713	-714	-715	-716	-717	-718	-719
1095.0	-719	-720	-721	-722	-723	-724	-725	-726	-727	-728
1096.0	-728	-729	-730	-731	-732	-733	-734	-735	-736	-737
1097.0	-737	-738	-739	-740	-741	-742	-743	-744	-745	-746
1098.0	-746	-747	-748	-749	-750	-751	-752	-753	-754	-755
1099.0	-755	-756	-757	-758	-759	-760	-761	-762	-763	-764
1100.0	-764	-765	-766	-767	-768	-769	-770	-771	-772	-773
1101.0	-773	-774	-775	-776	-777	-778	-779	-780	-781	-782
1102.0	-782	-783	-784	-785	-786	-787	-788	-789	-790	-791
1103.0	-791	-792	-793	-794	-795	-796	-797	-798	-799	-800
1104.0	-800	-801	-802	-803	-804	-805	-806	-807	-808	-809
1105.0	-809	-810	-811	-812	-813	-814	-815	-816	-817	-818
1106.0	-818	-819	-820	-821	-822	-823	-824	-825	-826	-827
1107.0	-827	-828	-829	-830	-831	-832	-833	-834	-835	-836
1108.0	-836	-837	-838	-839	-840	-841	-842	-843	-844	-845
1109.0	-845	-846	-847	-848	-849	-850	-851	-852	-853	-854
1110.0	-854	-855	-856	-857	-858	-859	-860	-861	-862	-863
1111.0	-863	-864	-865	-866	-867	-868	-869	-870	-871	-872
1112.0	-872	-873	-874	-875	-876	-877	-878	-879	-880	-881
1113.0	-881	-882	-883	-884	-885	-886	-887	-888	-889	-890
1114.0	-890	-891	-892	-893	-894	-895	-896	-897	-898	-899
1115.0	-899	-900	-901	-902	-903	-904	-905	-906	-907	-908
1116.0	-908	-909	-910	-911	-912	-913	-914	-915	-916	-917
1117.0	-917	-918	-919	-920	-921	-922	-923	-924	-925	-926
1118.0	-926	-927	-928	-929	-930	-931	-932	-933	-934	-935
1119.0	-935	-936	-937	-938	-939	-940	-941	-942	-943	-944
1120.0	-944	-945	-946	-947	-948	-949	-950	-951	-952	-953

TABLE VII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	00	01	02	03	04	05	06	07	08	09
120.0	-863	-864	-865	-866	-867	-868	-869	-870	-871	-872
121.0	-861	-862	-863	-864	-865	-866	-867	-868	-869	-870
122.0	-859	-860	-861	-862	-863	-864	-865	-866	-867	-868
123.0	-857	-858	-859	-860	-861	-862	-863	-864	-865	-866
124.0	-855	-856	-857	-858	-859	-860	-861	-862	-863	-864
125.0	-853	-854	-855	-856	-857	-858	-859	-860	-861	-862
126.0	-851	-852	-853	-854	-855	-856	-857	-858	-859	-860
127.0	-849	-850	-851	-852	-853	-854	-855	-856	-857	-858
128.0	-847	-848	-849	-850	-851	-852	-853	-854	-855	-856
129.0	-845	-846	-847	-848	-849	-850	-851	-852	-853	-854
130.0	-843	-844	-845	-846	-847	-848	-849	-850	-851	-852
131.0	-841	-842	-843	-844	-845	-846	-847	-848	-849	-850
132.0	-839	-840	-841	-842	-843	-844	-845	-846	-847	-848
133.0	-837	-838	-839	-840	-841	-842	-843	-844	-845	-846
134.0	-835	-836	-837	-838	-839	-840	-841	-842	-843	-844
135.0	-833	-834	-835	-836	-837	-838	-839	-840	-841	-842
136.0	-831	-832	-833	-834	-835	-836	-837	-838	-839	-840
137.0	-829	-830	-831	-832	-833	-834	-835	-836	-837	-838
138.0	-827	-828	-829	-830	-831	-832	-833	-834	-835	-836
139.0	-825	-826	-827	-828	-829	-830	-831	-832	-833	-834
140.0	-823	-824	-825	-826	-827	-828	-829	-830	-831	-832
141.0	-821	-822	-823	-824	-825	-826	-827	-828	-829	-830
142.0	-819	-820	-821	-822	-823	-824	-825	-826	-827	-828
143.0	-817	-818	-819	-820	-821	-822	-823	-824	-825	-826
144.0	-815	-816	-817	-818	-819	-820	-821	-822	-823	-824
145.0	-813	-814	-815	-816	-817	-818	-819	-820	-821	-822
146.0	-811	-812	-813	-814	-815	-816	-817	-818	-819	-820
147.0	-809	-810	-811	-812	-813	-814	-815	-816	-817	-818
148.0	-807	-808	-809	-810	-811	-812	-813	-814	-815	-816
149.0	-805	-806	-807	-808	-809	-810	-811	-812	-813	-814
150.0	-803	-804	-805	-806	-807	-808	-809	-810	-811	-812
151.0	-801	-802	-803	-804	-805	-806	-807	-808	-809	-810
152.0	-799	-800	-801	-802	-803	-804	-805	-806	-807	-808
153.0	-797	-798	-799	-800	-801	-802	-803	-804	-805	-806
154.0	-795	-796	-797	-798	-799	-800	-801	-802	-803	-804
155.0	-793	-794	-795	-796	-797	-798	-799	-800	-801	-802
156.0	-791	-792	-793	-794	-795	-796	-797	-798	-799	-800
157.0	-789	-790	-791	-792	-793	-794	-795	-796	-797	-798
158.0	-787	-788	-789	-790	-791	-792	-793	-794	-795	-796
159.0	-785	-786	-787	-788	-789	-790	-791	-792	-793	-794
160.0	-783	-784	-785	-786	-787	-788	-789	-790	-791	-792
161.0	-781	-782	-783	-784	-785	-786	-787	-788	-789	-790
162.0	-779	-780	-781	-782	-783	-784	-785	-786	-787	-788
163.0	-777	-778	-779	-780	-781	-782	-783	-784	-785	-786
164.0	-775	-776	-777	-778	-779	-780	-781	-782	-783	-784
165.0	-773	-774	-775	-776	-777	-778	-779	-780	-781	-782
166.0	-771	-772	-773	-774	-775	-776	-777	-778	-779	-780
167.0	-769	-770	-771	-772	-773	-774	-775	-776	-777	-778
168.0	-767	-768	-769	-770	-771	-772	-773	-774	-775	-776
169.0	-765	-766	-767	-768	-769	-770	-771	-772	-773	-774
170.0	-763	-764	-765	-766	-767	-768	-769	-770	-771	-772
171.0	-761	-762	-763	-764	-765	-766	-767	-768	-769	-770
172.0	-759	-760	-761	-762	-763	-764	-765	-766	-767	-768
173.0	-757	-758	-759	-760	-761	-762	-763	-764	-765	-766
174.0	-755	-756	-757	-758	-759	-760	-761	-762	-763	-764
175.0	-753	-754	-755	-756	-757	-758	-759	-760	-761	-762
176.0	-751	-752	-753	-754	-755	-756	-757	-758	-759	-760
177.0	-749	-750	-751	-752	-753	-754	-755	-756	-757	-758
178.0	-747	-748	-749	-750	-751	-752	-753	-754	-755	-756
179.0	-745	-746	-747	-748	-749	-750	-751	-752	-753	-754
180.0	-743	-744	-745	-746	-747	-748	-749	-750	-751	-752
181.0	-741	-742	-743	-744	-745	-746	-747	-748	-749	-750
182.0	-739	-740	-741	-742	-743	-744	-745	-746	-747	-748
183.0	-737	-738	-739	-740	-741	-742	-743	-744	-745	-746
184.0	-735	-736	-737	-738	-739	-740	-741	-742	-743	-744
185.0	-733	-734	-735	-736	-737	-738	-739	-740	-741	-742
186.0	-731	-732	-733	-734	-735	-736	-737	-738	-739	-740
187.0	-729	-730	-731	-732	-733	-734	-735	-736	-737	-738
188.0	-727	-728	-729	-730	-731	-732	-733	-734	-735	-736
189.0	-725	-726	-727	-728	-729	-730	-731	-732	-733	-734
190.0	-723	-724	-725	-726	-727	-728	-729	-730	-731	-732
191.0	-721	-722	-723	-724	-725	-726	-727	-728	-729	-730
192.0	-719	-720	-721	-722	-723	-724	-725	-726	-727	-728
193.0	-717	-718	-719	-720	-721	-722	-723	-724	-725	-726
194.0	-715	-716	-717	-718	-719	-720	-721	-722	-723	-724
195.0	-713	-714	-715	-716	-717	-718	-719	-720	-721	-722
196.0	-711	-712	-713	-714	-715	-716	-717	-718	-719	-720
197.0	-709	-710	-711	-712	-713	-714	-715	-716	-717	-718
198.0	-707	-708	-709	-710	-711	-712	-713	-714	-715	-716
199.0	-705	-706	-707	-708	-709	-710	-711	-712	-713	-714

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIBARS

P, mb	0	1	2	3	4	5	6	7	8	9
1000.	-1430	-1457	-1484	-1472	-1479	-1486	-1491	-1501	-1508	-1515
1100.	-1522	-1539	-1537	-1544	-1551	-1558	-1565	-1573	-1580	-1587
1200.	-1604	-1601	-1608	-1616	-1623	-1630	-1637	-1644	-1651	-1658
1300.	-1684	-1673	-1680	-1687	-1694	-1701	-1708	-1715	-1722	-1729
1400.	-1736	-1744	-1751	-1758	-1765	-1772	-1779	-1786	-1793	-1800
1500.	-1827	-1815	-1822	-1829	-1836	-1842	-1849	-1856	-1863	-1870
1600.	-1877	-1884	-1891	-1898	-1905	-1912	-1919	-1926	-1933	-1940
1700.	-1944	-1951	-1958	-1965	-1972	-1979	-1986	-1993	-2000	-2007
1800.	-2018	-2022	-2029	-2036	-2043	-2050	-2057	-2064	-2071	-2077
1900.	-2084	-2091	-2098	-2105	-2112	-2119	-2125	-2132	-2139	-2146
2000.	-2153	-2159	-2166	-2173	-2180	-2186	-2193	-2200	-2207	-2214
2100.	-2220	-2227	-2234	-2241	-2248	-2254	-2261	-2268	-2274	-2281
2200.	-2288	-2294	-2301	-2308	-2315	-2321	-2328	-2335	-2341	-2348
2300.	-2355	-2361	-2368	-2375	-2381	-2388	-2395	-2401	-2408	-2415
2400.	-2421	-2428	-2435	-2441	-2448	-2454	-2461	-2468	-2474	-2481
2500.	-2487	-2494	-2501	-2507	-2514	-2520	-2527	-2534	-2540	-2547
2600.	-2553	-2560	-2566	-2573	-2579	-2586	-2593	-2599	-2606	-2612
2700.	-2619	-2625	-2632	-2638	-2645	-2651	-2658	-2664	-2671	-2677
2800.	-2684	-2690	-2697	-2703	-2710	-2716	-2723	-2729	-2735	-2742
2900.	-2748	-2755	-2761	-2768	-2774	-2780	-2787	-2793	-2800	-2806
3000.	-2813	-2819	-2825	-2832	-2838	-2845	-2851	-2857	-2864	-2870
3100.	-2876	-2883	-2889	-2896	-2902	-2908	-2915	-2921	-2927	-2934
3200.	-2940	-2946	-2953	-2959	-2965	-2972	-2978	-2984	-2991	-2997
3300.	-3003	-3009	-3016	-3022	-3028	-3035	-3041	-3047	-3053	-3060
3400.	-3066	-3072	-3078	-3085	-3091	-3097	-3103	-3109	-3115	-3122
3500.	-3128	-3135	-3141	-3147	-3153	-3159	-3165	-3172	-3178	-3184
3600.	-3190	-3197	-3203	-3209	-3215	-3221	-3228	-3234	-3240	-3246
3700.	-3252	-3258	-3265	-3271	-3277	-3283	-3289	-3295	-3301	-3308
3800.	-3314	-3320	-3326	-3332	-3338	-3345	-3350	-3356	-3363	-3369
3900.	-3375	-3381	-3387	-3393	-3399	-3405	-3411	-3417	-3423	-3429
4000.	-3435	-3442	-3448	-3454	-3460	-3466	-3472	-3478	-3484	-3490
4100.	-3496	-3502	-3508	-3514	-3520	-3526	-3532	-3538	-3544	-3550
4200.	-3556	-3562	-3568	-3574	-3580	-3586	-3592	-3598	-3604	-3610
4300.	-3616	-3622	-3628	-3634	-3640	-3646	-3652	-3657	-3663	-3669
4400.	-3675	-3681	-3687	-3693	-3699	-3705	-3711	-3717	-3723	-3729
4500.	-3734	-3740	-3746	-3752	-3758	-3764	-3770	-3776	-3782	-3788
4600.	-3793	-3799	-3805	-3811	-3817	-3823	-3828	-3834	-3840	-3846
4700.	-3852	-3858	-3863	-3869	-3875	-3881	-3887	-3893	-3898	-3904
4800.	-3910	-3916	-3922	-3927	-3933	-3939	-3945	-3951	-3956	-3962
4900.	-3968	-3974	-3980	-3985	-3991	-3997	-4003	-4008	-4014	-4020
5000.	-4026	-4031	-4037	-4043	-4049	-4054	-4060	-4066	-4072	-4077
5100.	-4083	-4089	-4094	-4100	-4106	-4112	-4117	-4123	-4129	-4134
5200.	-4140	-4146	-4151	-4157	-4163	-4169	-4174	-4180	-4186	-4191
5300.	-4197	-4203	-4208	-4214	-4219	-4225	-4231	-4236	-4242	-4248
5400.	-4253	-4259	-4265	-4270	-4276	-4282	-4287	-4293	-4298	-4304
5500.	-4310	-4315	-4321	-4326	-4332	-4338	-4343	-4349	-4354	-4360
5600.	-4366	-4371	-4377	-4382	-4388	-4393	-4399	-4405	-4410	-4416
5700.	-4421	-4427	-4432	-4438	-4443	-4449	-4454	-4460	-4466	-4471
5800.	-4477	-4482	-4488	-4493	-4499	-4504	-4510	-4515	-4521	-4526
5900.	-4532	-4537	-4543	-4548	-4554	-4559	-4565	-4570	-4576	-4581
6000.	-4587	-4592	-4598	-4603	-4609	-4614	-4619	-4625	-4630	-4636
6100.	-4641	-4647	-4652	-4658	-4663	-4668	-4674	-4679	-4685	-4690
6200.	-4696	-4701	-4706	-4712	-4717	-4723	-4728	-4734	-4739	-4744
6300.	-4750	-4755	-4761	-4766	-4771	-4777	-4782	-4787	-4793	-4798
6400.	-4804	-4809	-4814	-4820	-4825	-4830	-4836	-4841	-4846	-4851
6500.	-4857	-4863	-4868	-4873	-4879	-4884	-4889	-4895	-4900	-4905
6600.	-4911	-4916	-4921	-4927	-4932	-4937	-4942	-4948	-4953	-4958
6700.	-4964	-4969	-4974	-4980	-4985	-4990	-4995	-4999	-5004	-5009

Table VIII
GEOPOTENTIAL ALTITUDE IN METERS AS A FUNCTION OF PRESSURE IN
MILLIMETERS OF MERCURY

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0 00	0 01	0 02	0 03	0 04	0 05	0 06	0 07	0 08	0 09
6.00		31901	31900	31900	31970	31960	31949	31939	31929	31919
6.10	31900	31899	31899	31878	31868	31859	31849	31839	31828	31818
6.20	31899	31899	31899	31878	31868	31859	31849	31839	31829	31819
6.30	31899	31899	31899	31878	31868	31859	31849	31839	31829	31819
6.40	31899	31899	31899	31878	31868	31859	31849	31839	31829	31819
6.50	31899	31899	31899	31878	31868	31859	31849	31839	31829	31819
7.00	31819	31809	31809	31809	31877	31868	31858	31848	31838	31828
7.10	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.20	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.30	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.40	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.50	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.60	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.70	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.80	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
7.90	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.00	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.10	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.20	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.30	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.40	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.50	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.60	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.70	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.80	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
8.90	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.00	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.10	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.20	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.30	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.40	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.50	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.60	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.70	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.80	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828
9.90	31819	31819	31819	31819	31877	31868	31858	31848	31838	31828

TABLE VIII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	000	001	002	003	004	005	006	007	008	009
10.00	29166	29139	29113	29088	29063	29038	29013	28988	28963	28938
10.10	29080	29053	29027	29002	28977	28952	28927	28902	28877	28852
10.20	29015	28988	28962	28937	28912	28887	28862	28837	28812	28787
10.30	28950	28923	28897	28872	28847	28822	28797	28772	28747	28722
10.40	28885	28858	28832	28807	28782	28757	28732	28707	28682	28657
10.50	28820	28793	28767	28742	28717	28692	28667	28642	28617	28592
10.60	28755	28728	28702	28677	28652	28627	28602	28577	28552	28527
10.70	28690	28663	28637	28612	28587	28562	28537	28512	28487	28462
10.80	28625	28598	28572	28547	28522	28497	28472	28447	28422	28397
10.90	28560	28533	28507	28482	28457	28432	28407	28382	28357	28332
11.00	28495	28468	28442	28417	28392	28367	28342	28317	28292	28267
11.10	28430	28403	28377	28352	28327	28302	28277	28252	28227	28202
11.20	28365	28338	28312	28287	28262	28237	28212	28187	28162	28137
11.30	28300	28273	28247	28222	28197	28172	28147	28122	28097	28072
11.40	28235	28208	28182	28157	28132	28107	28082	28057	28032	28007
11.50	28170	28143	28117	28092	28067	28042	28017	27992	27967	27942
11.60	28105	28078	28052	28027	28002	27977	27952	27927	27902	27877
11.70	28040	28013	27987	27962	27937	27912	27887	27862	27837	27812
11.80	27975	27948	27922	27897	27872	27847	27822	27797	27772	27747
11.90	27910	27883	27857	27832	27807	27782	27757	27732	27707	27682
12.00	27845	27818	27792	27767	27742	27717	27692	27667	27642	27617
12.10	27780	27753	27727	27702	27677	27652	27627	27602	27577	27552
12.20	27715	27688	27662	27637	27612	27587	27562	27537	27512	27487
12.30	27650	27623	27597	27572	27547	27522	27497	27472	27447	27422
12.40	27585	27558	27532	27507	27482	27457	27432	27407	27382	27357
12.50	27520	27493	27467	27442	27417	27392	27367	27342	27317	27292
12.60	27455	27428	27402	27377	27352	27327	27302	27277	27252	27227
12.70	27390	27363	27337	27312	27287	27262	27237	27212	27187	27162
12.80	27325	27298	27272	27247	27222	27197	27172	27147	27122	27097
12.90	27260	27233	27207	27182	27157	27132	27107	27082	27057	27032
13.00	27195	27168	27142	27117	27092	27067	27042	27017	26992	26967
13.10	27130	27103	27077	27052	27027	27002	26977	26952	26927	26902
13.20	27065	27038	27012	26987	26962	26937	26912	26887	26862	26837
13.30	27000	26973	26947	26922	26897	26872	26847	26822	26797	26772
13.40	26935	26908	26882	26857	26832	26807	26782	26757	26732	26707
13.50	26870	26843	26817	26792	26767	26742	26717	26692	26667	26642
13.60	26805	26778	26752	26727	26702	26677	26652	26627	26602	26577
13.70	26740	26713	26687	26662	26637	26612	26587	26562	26537	26512
13.80	26675	26648	26622	26597	26572	26547	26522	26497	26472	26447
13.90	26610	26583	26557	26532	26507	26482	26457	26432	26407	26382
14.00	26545	26518	26492	26467	26442	26417	26392	26367	26342	26317
14.10	26480	26453	26427	26402	26377	26352	26327	26302	26277	26252
14.20	26415	26388	26362	26337	26312	26287	26262	26237	26212	26187
14.30	26350	26323	26297	26272	26247	26222	26197	26172	26147	26122
14.40	26285	26258	26232	26207	26182	26157	26132	26107	26082	26057
14.50	26220	26193	26167	26142	26117	26092	26067	26042	26017	25992
14.60	26155	26128	26102	26077	26052	26027	26002	25977	25952	25927
14.70	26090	26063	26037	26012	25987	25962	25937	25912	25887	25862
14.80	26025	26000	25974	25949	25924	25899	25874	25849	25824	25799
14.90	25960	25933	25907	25882	25857	25832	25807	25782	25757	25732
15.00	25895	25868	25842	25817	25792	25767	25742	25717	25692	25667
15.10	25830	25803	25777	25752	25727	25702	25677	25652	25627	25602
15.20	25765	25738	25712	25687	25662	25637	25612	25587	25562	25537
15.30	25700	25673	25647	25622	25597	25572	25547	25522	25497	25472
15.40	25635	25608	25582	25557	25532	25507	25482	25457	25432	25407
15.50	25570	25543	25517	25492	25467	25442	25417	25392	25367	25342
15.60	25505	25478	25452	25427	25402	25377	25352	25327	25302	25277
15.70	25440	25413	25387	25362	25337	25312	25287	25262	25237	25212
15.80	25375	25348	25322	25297	25272	25247	25222	25197	25172	25147
15.90	25310	25283	25257	25232	25207	25182	25157	25132	25107	25082
16.00	25245	25218	25192	25167	25142	25117	25092	25067	25042	25017
16.10	25180	25153	25127	25102	25077	25052	25027	25002	24977	24952
16.20	25115	25088	25062	25037	25012	24987	24962	24937	24912	24887
16.30	25050	25023	25000	24974	24949	24924	24899	24874	24849	24824
16.40	24985	24958	24932	24907	24882	24857	24832	24807	24782	24757
16.50	24920	24893	24867	24842	24817	24792	24767	24742	24717	24692
16.60	24855	24828	24802	24777	24752	24727	24702	24677	24652	24627
16.70	24790	24763	24737	24712	24687	24662	24637	24612	24587	24562
16.80	24725	24698	24672	24647	24622	24597	24572	24547	24522	24497
16.90	24660	24633	24607	24582	24557	24532	24507	24482	24457	24432
17.00	24595	24568	24542	24517	24492	24467	24442	24417	24392	24367
17.10	24530	24503	24477	24452	24427	24402	24377	24352	24327	24302
17.20	24465	24438	24412	24387	24362	24337	24312	24287	24262	24237
17.30	24400	24373	24347	24322	24297	24272	24247	24222	24197	24172
17.40	24335	24308	24282	24257	24232	24207	24182	24157	24132	24107
17.50	24270	24243	24217	24192	24167	24142	24117	24092	24067	24042
17.60	24205	24178	24152	24127	24102	24077	24052	24027	24002	23977
17.70	24140	24113	24087	24062	24037	24012	23987	23962	23937	23912
17.80	24075	24048	24022	23997	23972	23947	23922	23897	23872	23847
17.90	24010	23983	23957	23932	23907	23882	23857	23832	23807	23782
18.00	23945	23918	23892	23867	23842	23817	23792	23767	23742	23717
18.10	23880	23853	23827	23802	23777	23752	23727	23702	23677	23652
18.20	23815	23788	23762	23737	23712	23687	23662	23637	23612	23587
18.30	23750	23723	23697	23672	23647	23622	23597	23572	23547	23522
18.40	23685	23658	23632	23607	23582	23557	23532	23507	23482	23457
18.50	23620	23593	23567	23542	23517	23492	23467	23442	23417	23392
18.60	23555	23528	23502	23477	23452	23427	23402	23377	23352	23327
18.70	23490	23463	23437	23412	23387	23362	23337	23312	23287	23262
18.80	23425	23398	23372	23347	23322	23297	23272	23247	23222	23197
18.90	23360	23333	23307	23282	23257	23232	23207	23182	23157	23132
19.00	23295	23268	23242	23217	23192	23167	23142	23117	23092	23067
19.10	23230	23203	23177	23152	23127	23102	23077	23052	23027	23002
19.20	23165	23138	23112	23087	23062	23037	23012	22987	22962	22937
19.30	23100	23073	23047	23022	22997	22972	22947	22922	22897	22872
19.40	23035	23008	22982	22957	22932	22907	22882	22857	22832	22807
19.50	22970	22943	22917	22892	22867	22842	22817	22792	22767	22742
19.60	22905	22878	22852	22827	22802	22777	22752	22727	22702	22677
19.70	22840	22813	22787	22762	22737	22712	22687	22662	22637	22612
19.80	22775	22748	22722	22697	22672	22647	22622	22597	22572	22547
19.90	22710	22683	22657	22632	22607	22582	22557	22532	22507	22482

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
20.0	24611	24578	24546	24514	24482	24451	24419	24388	24357	24326
21.0	24295	24264	24234	24203	24173	24143	24113	24083	24053	24024
22.0	23994	23965	23936	23907	23878	23849	23820	23791	23762	23733
23.0	23707	23679	23651	23624	23596	23569	23541	23514	23487	23460
24.0	23433	23406	23380	23353	23327	23300	23274	23248	23222	23196
25.0	23170	23144	23119	23093	23068	23043	23018	22993	22968	22943
26.0	22918	22893	22869	22844	22820	22796	22771	22747	22723	22699
27.0	22675	22652	22628	22605	22581	22558	22534	22511	22488	22465
28.0	22442	22419	22397	22374	22351	22329	22306	22284	22262	22239
29.0	22217	22195	22173	22151	22130	22108	22086	22065	22043	22022
30.0	22000	21979	21958	21936	21915	21894	21873	21853	21832	21811
31.0	21793	21772	21751	21730	21709	21688	21668	21648	21628	21607
32.0	21598	21578	21558	21538	21518	21498	21478	21458	21438	21418
33.0	21391	21372	21352	21333	21314	21295	21276	21257	21238	21219
34.0	21201	21182	21163	21145	21126	21107	21089	21071	21052	21034
35.0	21016	20998	20980	20961	20943	20925	20908	20890	20872	20854
36.0	20835	20817	20800	20781	20763	20745	20727	20710	20692	20674
37.0	20662	20645	20628	20611	20594	20577	20560	20543	20526	20509
38.0	20492	20476	20459	20442	20426	20409	20393	20376	20360	20344
39.0	20327	20311	20295	20279	20263	20247	20230	20214	20199	20183
40.0	20167	20151	20135	20119	20104	20088	20072	20057	20041	20026
41.0	20010	19995	19979	19964	19948	19933	19918	19903	19887	19872
42.0	19857	19842	19827	19812	19797	19782	19767	19752	19738	19723
43.0	19708	19693	19679	19664	19649	19635	19620	19606	19591	19577
44.0	19568	19553	19539	19524	19509	19495	19480	19466	19452	19438
45.0	19420	19406	19392	19378	19364	19350	19336	19322	19308	19294
46.0	19280	19267	19253	19239	19225	19212	19198	19185	19171	19157
47.0	19144	19130	19117	19104	19090	19077	19063	19050	19037	19024
48.0	19010	18997	18984	18971	18958	18945	18932	18919	18906	18893
49.0	18880	18867	18854	18841	18828	18815	18802	18790	18777	18764
50.0	18752	18739	18726	18714	18701	18688	18675	18663	18651	18638
51.0	18626	18614	18601	18589	18576	18564	18552	18540	18527	18515
52.0	18503	18491	18478	18466	18454	18442	18430	18418	18406	18394
53.0	18382	18370	18358	18346	18334	18322	18310	18299	18287	18275
54.0	18263	18252	18240	18228	18217	18205	18193	18182	18170	18159
55.0	18147	18136	18124	18113	18101	18090	18078	18067	18056	18044
56.0	18033	18022	18010	17999	17988	17976	17965	17954	17943	17932
57.0	17921	17909	17898	17887	17876	17865	17854	17843	17832	17821
58.0	17810	17799	17788	17778	17767	17756	17745	17734	17723	17713
59.0	17702	17691	17680	17670	17659	17648	17638	17627	17616	17606
60.0	17595	17585	17574	17564	17553	17543	17532	17522	17511	17501
61.0	17490	17480	17470	17459	17449	17439	17428	17418	17408	17398
62.0	17387	17377	17367	17357	17347	17336	17326	17316	17306	17296
63.0	17286	17276	17266	17256	17246	17236	17226	17216	17206	17196
64.0	17186	17176	17166	17156	17147	17137	17127	17117	17107	17097
65.0	17088	17078	17068	17059	17049	17039	17029	17019	17009	17001
66.0	16991	16981	16972	16962	16953	16943	16934	16924	16914	16905
67.0	16896	16886	16877	16867	16858	16848	16839	16830	16820	16811
68.0	16802	16792	16783	16774	16764	16755	16746	16737	16727	16718
69.0	16709	16700	16691	16681	16672	16663	16654	16645	16636	16627
70.0	16618	16609	16600	16591	16582	16573	16564	16555	16546	16537
71.0	16528	16519	16510	16501	16492	16483	16474	16465	16456	16447
72.0	16439	16430	16422	16413	16404	16395	16386	16378	16369	16360
73.0	16352	16343	16334	16326	16317	16308	16300	16291	16283	16274
74.0	16265	16257	16248	16240	16231	16223	16214	16206	16197	16189
75.0	16180	16172	16163	16155	16146	16138	16130	16121	16113	16105
76.0	16096	16088	16080	16071	16063	16055	16046	16038	16030	16022
77.0	16013	16005	16007	16008	16009	16009	16009	16009	16009	16009
78.0	15932	15923	15915	15907	15899	15891	15883	15875	15867	15859
79.0	15851	15843	15835	15827	15819	15811	15803	15795	15787	15779
80.0	15771	15763	15755	15747	15739	15731	15724	15716	15708	15700
81.0	15692	15684	15677	15669	15661	15653	15645	15638	15630	15622
82.0	15614	15607	15599	15591	15583	15576	15568	15560	15553	15545
83.0	15537	15530	15522	15515	15507	15499	15492	15484	15477	15469
84.0	15462	15454	15446	15439	15431	15424	15416	15409	15401	15394
85.0	15386	15379	15372	15364	15357	15349	15342	15334	15327	15320
86.0	15312	15304	15296	15289	15281	15274	15266	15259	15251	15244
87.0	15239	15232	15224	15217	15210	15203	15195	15188	15181	15174
88.0	15167	15159	15152	15145	15138	15131	15123	15116	15109	15102
89.0	15095	15088	15081	15074	15066	15059	15052	15045	15038	15031
90.0	15024	15017	15010	15003	14996	14989	14982	14975	14968	14961
91.0	14954	14947	14940	14933	14926	14919	14912	14905	14898	14892
92.0	14885	14878	14871	14864	14857	14850	14843	14837	14830	14823
93.0	14816	14809	14802	14796	14789	14782	14775	14769	14762	14755
94.0	14748	14742	14735	14728	14721	14715	14708	14701	14695	14688
95.0	14681	14674	14668	14661	14654	14648	14641	14635	14628	14621
96.0	14615	14608	14602	14595	14588	14582	14575	14569	14562	14556
97.0	14549	14542	14536	14529	14523	14516	14510	14503	14497	14490
98.0	14484	14478	14471	14465	14458	14452	14445	14439	14432	14426
99.0	14420	14413	14407	14400	14394	14388	14381	14375	14369	14362
100.0	14356	14350	14343	14337	14331	14324	14318	14312	14305	14299
101.0	14293	14286	14280	14274	14268	14261	14255	14249	14243	14237
102.0	14230	14224	14218	14212	14206	14199	14193	14187	14181	14175
103.0	14168	14162	14156	14150	14144	14138	14132	14125	14119	14113
104.0	14107	14101	14095	14089	14083	14077	14071	14065	14059	14053
105.0	14046	14040	14034	14028	14022	14016	14010	14004	13998	13992
106.0	13986	13980	13974	13969	13963	13957	13951	13945	13939	13933
107.0	13927	13921	13915	13909	13903	13897	13891	13885	13879	13873
108.0	13868	13862	13856	13850	13844	13839	13833	13827	13821	13815
109.0	13809	13804	13799	13792	13786	13780	13775	13769	13763	13757
110.0	13751	13746	13740	13734	13728	13723	13717	13711	13705	13700
111.0	13694	13688	13683	13677	13671	13666	13660	13654	13649	13643
112.0	13637	13632	13626	13620	13615	13609	13603	13598	13592	13586
113.0	13621	13615	13610	13604	13598	13593	13587	13582	13576	13570
114.0	13605	13599	13594	13588	13583	13577	13572	13566	13561	13555
115.0	13589	13584	13578	13573	13567	13562	13557	13551	13546	13540
116.0	13573	13568	13563	13557	13552	13547	13542	13537	13531	13526
117.0	13557	13552	13547	13541	13536	13531	13526	13521	13516	13511
118.0	13541	13536	13531	13525	13520	13515	13510	13505	13500	13495
119.0	13525	13520	13515	13510	13505	13500	13495	13490	13485	13480

TABLE VIII - Continued

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
20.0	13200	13194	13189	13184	13179	13173	13168	13163	13158	13152
21.0	13147	13142	13137	13131	13126	13121	13116	13110	13105	13099
22.0	13094	13089	13083	13078	13072	13067	13061	13056	13050	13044
23.0	13043	13038	13033	13027	13022	13017	13012	13007	13001	12995
24.0	12992	12987	12981	12976	12971	12965	12960	12954	12949	12943
25.0	12941	12936	12931	12925	12920	12915	12910	12904	12899	12893
26.0	12890	12885	12880	12875	12869	12864	12858	12853	12847	12841
27.0	12840	12835	12830	12825	12819	12814	12808	12803	12797	12791
28.0	12790	12785	12780	12775	12769	12764	12758	12753	12747	12741
29.0	12741	12736	12731	12726	12721	12716	12710	12705	12699	12693
30.0	12692	12687	12682	12677	12672	12666	12661	12655	12650	12644
31.0	12643	12638	12633	12628	12622	12617	12611	12606	12600	12594
32.0	12594	12589	12583	12578	12572	12567	12561	12556	12550	12544
33.0	12543	12538	12533	12527	12522	12517	12511	12506	12500	12494
34.0	12500	12495	12490	12484	12479	12473	12468	12462	12456	12450
35.0	12453	12448	12443	12437	12432	12426	12421	12415	12409	12403
36.0	12408	12403	12397	12392	12386	12381	12375	12369	12363	12357
37.0	12359	12354	12349	12343	12338	12332	12327	12321	12315	12309
38.0	12313	12308	12303	12297	12292	12286	12281	12275	12269	12263
39.0	12268	12263	12258	12252	12247	12241	12236	12230	12224	12218
40.0	12219	12214	12209	12203	12198	12192	12187	12181	12175	12169
41.0	12164	12159	12153	12148	12142	12137	12131	12125	12119	12113
42.0	12108	12103	12097	12092	12086	12081	12075	12069	12063	12057
43.0	12052	12047	12041	12036	12030	12025	12019	12013	12007	12001
44.0	12000	11995	11989	11984	11978	11973	11967	11961	11955	11949
45.0	11946	11941	11935	11930	11924	11919	11913	11907	11901	11895
46.0	11890	11885	11879	11874	11868	11863	11857	11851	11845	11839
47.0	11834	11829	11823	11818	11812	11807	11801	11795	11789	11783
48.0	11777	11772	11766	11761	11755	11750	11744	11738	11732	11726
49.0	11721	11716	11710	11705	11699	11693	11687	11681	11675	11669
50.0	11664	11659	11653	11648	11642	11637	11631	11625	11619	11613
51.0	11608	11603	11597	11592	11586	11581	11575	11569	11563	11557
52.0	11552	11547	11541	11536	11530	11525	11519	11513	11507	11501
53.0	11496	11491	11485	11480	11474	11469	11463	11457	11451	11445
54.0	11440	11435	11429	11424	11418	11413	11407	11401	11395	11389
55.0	11384	11379	11373	11368	11362	11357	11351	11345	11339	11333
56.0	11327	11322	11316	11311	11305	11299	11293	11287	11281	11275
57.0	11269	11264	11258	11253	11247	11241	11235	11229	11223	11217
58.0	11211	11206	11200	11195	11189	11183	11177	11171	11165	11159
59.0	11153	11148	11142	11137	11131	11125	11119	11113	11107	11101
60.0	11095	11090	11084	11079	11073	11067	11061	11055	11049	11043
61.0	11037	11032	11026	11021	11015	11009	11003	10997	10991	10985
62.0	10977	10972	10966	10961	10955	10949	10943	10937	10931	10925
63.0	10917	10912	10906	10901	10895	10889	10883	10877	10871	10865
64.0	10855	10850	10844	10839	10833	10827	10821	10815	10809	10803
65.0	10792	10787	10781	10776	10770	10764	10758	10752	10746	10740
66.0	10727	10722	10716	10711	10705	10699	10693	10687	10681	10675
67.0	10659	10654	10648	10643	10637	10631	10625	10619	10613	10607
68.0	10592	10587	10581	10576	10570	10564	10558	10552	10546	10540
69.0	10523	10518	10512	10507	10501	10495	10489	10483	10477	10471
70.0	10452	10447	10441	10436	10430	10424	10418	10412	10406	10400
71.0	10381	10376	10370	10365	10359	10353	10347	10341	10335	10329
72.0	10308	10303	10297	10292	10286	10280	10274	10268	10262	10256
73.0	10233	10228	10222	10217	10211	10205	10199	10193	10187	10181
74.0	10156	10151	10145	10140	10134	10128	10122	10116	10110	10104
75.0	10077	10072	10066	10061	10055	10049	10043	10037	10031	10025
76.0	10000	9995	9989	9984	9978	9972	9966	9960	9954	9948
77.0	9921	9916	9910	9905	9899	9893	9887	9881	9875	9869
78.0	9829	9824	9818	9813	9807	9801	9795	9789	9783	9777
79.0	9734	9729	9723	9718	9712	9706	9700	9694	9688	9682
80.0	9637	9632	9626	9621	9615	9609	9603	9597	9591	9585
81.0	9540	9535	9529	9524	9518	9512	9506	9500	9494	9488
82.0	9443	9438	9432	9427	9421	9415	9409	9403	9397	9391
83.0	9346	9341	9335	9330	9324	9318	9312	9306	9300	9294
84.0	9249	9244	9238	9233	9227	9221	9215	9209	9203	9197
85.0	9150	9145	9139	9134	9128	9122	9116	9110	9104	9098
86.0	9053	9048	9042	9037	9031	9025	9019	9013	9007	9001
87.0	8956	8951	8945	8940	8934	8928	8922	8916	8910	8904
88.0	8859	8854	8848	8843	8837	8831	8825	8819	8813	8807
89.0	8762	8757	8751	8746	8740	8734	8728	8722	8716	8710
90.0	8665	8660	8654	8649	8643	8637	8631	8625	8619	8613
91.0	8568	8563	8557	8552	8546	8540	8534	8528	8522	8516
92.0	8471	8466	8460	8455	8449	8443	8437	8431	8425	8419
93.0	8374	8369	8363	8358	8352	8346	8340	8334	8328	8322
94.0	8277	8272	8266	8261	8255	8249	8243	8237	8231	8225
95.0	8180	8175	8169	8164	8158	8152	8146	8140	8134	8128
96.0	8083	8078	8072	8067	8061	8055	8049	8043	8037	8031
97.0	7986	7981	7975	7970	7964	7958	7952	7946	7940	7934
98.0	7889	7884	7878	7873	7867	7861	7855	7849	7843	7837
99.0	7792	7787	7781	7776	7770	7764	7758	7752	7746	7740
100.0	7695	7690	7684	7679	7673	7667	7661	7655	7649	7643
101.0	7598	7593	7587	7582	7576	7570	7564	7558	7552	7546
102.0	7499	7494	7488	7483	7477	7471	7465	7459	7453	7447
103.0	7402	7397	7391	7386	7380	7374	7368	7362	7356	7350
104.0	7305	7300	7294	7289	7283	7277	7271	7265	7259	7253
105.0	7208	7203	7197	7192	7186	7180	7174	7168	7162	7156
106.0	7111	7106	7100	7095	7089	7083	7077	7071	7065	7059
107.0	7014	7009	7003	6998	6992	6986	6980	6974	6968	6962
108.0	6917	6912	6906	6901	6895	6889	6883	6877	6871	6865
109.0	6820	6815	6809	6804	6798	6792	6786	6780	6774	6768
110.0	6723	6718	6712	6707	6701	6695	6689	6683	6677	6671
111.0	6626	6621	6615	6610	6604	6598	6592	6586	6580	6574
112.0	6529	6524	6518	6513	6507	6501	6495	6489	6483	6477
113.0	6432	6427	6421	6416	6410	6404	6398	6392	6386	6380
114.0	6335	6330	6324	6319	6313	6307	6301	6295	6289	6283
115.0	6238	6233	6227	6222	6216	6210	6204	6198	6192	6186
116.0	6141	6136	6130	6125	6119	6113	6107	6101	6095	6089
117.0	6044	6039	6033	6028	6022	6016	6010	6004	5998	5992
118.0	5947	5942	5936	5931	5925	5919	5913	5907	5901	5895
119.0	5850	5845	5839	5834	5828	5822	5816	5810	5804	5798
120.0	5753	5748	5742	5737	5731	5725	5719	5713	5707	5701
121.0	5656	5651	5645	5640	5634	5628	5622	5616	5610	5604
122.0	5559	5554	5548	5543	5537	5531	5525	5519	5513	5507
123.0	5462	5457	5451	5446	5440	5434	5428	5422	5416	5410
124.0	5365	5360	5354	5349	5343	5337	5331	5325	5319	5313
125.0	5268	5263	5257	5252	5246	5240	5234	5228	5222	5216
126.0	5171	5166	5160	5155	5149	5143	5137	5131	5125	5119
127.0	5074	5069	5063	5058	5052	5046	5040	5034	5028	5022
128.0	4977	4972	4966	4961	4955	4949	4943	4937	4931	4925
129.0	4880	4875	4869	4864	4858	4852	4846	4840	4834	4828
130.0	4783	4778	4772	4767	4761	4755	4749	4743	4737	4731
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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mmHg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
220.0	9215	9212	9208	9205	9202	9199	9196	9193	9190	9187
221.0	9224	9221	9217	9214	9211	9208	9205	9202	9199	9196
222.0	9234	9231	9227	9224	9221	9218	9215	9212	9209	9206
223.0	9244	9241	9237	9234	9231	9228	9225	9222	9219	9216
224.0	9254	9251	9247	9244	9241	9238	9235	9232	9229	9226
225.0	9264	9261	9257	9254	9251	9248	9245	9242	9239	9236
226.0	9274	9271	9267	9264	9261	9258	9255	9252	9249	9246
227.0	9284	9281	9277	9274	9271	9268	9265	9262	9259	9256
228.0	9294	9291	9287	9284	9281	9278	9275	9272	9269	9266
229.0	9304	9301	9297	9294	9291	9288	9285	9282	9279	9276
230.0	9314	9311	9307	9304	9301	9298	9295	9292	9289	9286
231.0	9324	9321	9317	9314	9311	9308	9305	9302	9299	9296
232.0	9334	9331	9327	9324	9321	9318	9315	9312	9309	9306
233.0	9344	9341	9337	9334	9331	9328	9325	9322	9319	9316
234.0	9354	9351	9347	9344	9341	9338	9335	9332	9329	9326
235.0	9364	9361	9357	9354	9351	9348	9345	9342	9339	9336
236.0	9374	9371	9367	9364	9361	9358	9355	9352	9349	9346
237.0	9384	9381	9377	9374	9371	9368	9365	9362	9359	9356
238.0	9394	9391	9387	9384	9381	9378	9375	9372	9369	9366
239.0	9404	9401	9397	9394	9391	9388	9385	9382	9379	9376
240.0	9414	9411	9407	9404	9401	9398	9395	9392	9389	9386
241.0	9424	9421	9417	9414	9411	9408	9405	9402	9399	9396
242.0	9434	9431	9427	9424	9421	9418	9415	9412	9409	9406
243.0	9444	9441	9437	9434	9431	9428	9425	9422	9419	9416
244.0	9454	9451	9447	9444	9441	9438	9435	9432	9429	9426
245.0	9464	9461	9457	9454	9451	9448	9445	9442	9439	9436
246.0	9474	9471	9467	9464	9461	9458	9455	9452	9449	9446
247.0	9484	9481	9477	9474	9471	9468	9465	9462	9459	9456
248.0	9494	9491	9487	9484	9481	9478	9475	9472	9469	9466
249.0	9504	9501	9497	9494	9491	9488	9485	9482	9479	9476
250.0	9514	9511	9507	9504	9501	9498	9495	9492	9489	9486
251.0	9524	9521	9517	9514	9511	9508	9505	9502	9499	9496
252.0	9534	9531	9527	9524	9521	9518	9515	9512	9509	9506
253.0	9544	9541	9537	9534	9531	9528	9525	9522	9519	9516
254.0	9554	9551	9547	9544	9541	9538	9535	9532	9529	9526
255.0	9564	9561	9557	9554	9551	9548	9545	9542	9539	9536
256.0	9574	9571	9567	9564	9561	9558	9555	9552	9549	9546
257.0	9584	9581	9577	9574	9571	9568	9565	9562	9559	9556
258.0	9594	9591	9587	9584	9581	9578	9575	9572	9569	9566
259.0	9604	9601	9597	9594	9591	9588	9585	9582	9579	9576
260.0	9614	9611	9607	9604	9601	9598	9595	9592	9589	9586
261.0	9624	9621	9617	9614	9611	9608	9605	9602	9599	9596
262.0	9634	9631	9627	9624	9621	9618	9615	9612	9609	9606
263.0	9644	9641	9637	9634	9631	9628	9625	9622	9619	9616
264.0	9654	9651	9647	9644	9641	9638	9635	9632	9629	9626
265.0	9664	9661	9657	9654	9651	9648	9645	9642	9639	9636
266.0	9674	9671	9667	9664	9661	9658	9655	9652	9649	9646
267.0	9684	9681	9677	9674	9671	9668	9665	9662	9659	9656
268.0	9694	9691	9687	9684	9681	9678	9675	9672	9669	9666
269.0	9704	9701	9697	9694	9691	9688	9685	9682	9679	9676
270.0	9714	9711	9707	9704	9701	9698	9695	9692	9689	9686
271.0	9724	9721	9717	9714	9711	9708	9705	9702	9699	9696
272.0	9734	9731	9727	9724	9721	9718	9715	9712	9709	9706
273.0	9744	9741	9737	9734	9731	9728	9725	9722	9719	9716
274.0	9754	9751	9747	9744	9741	9738	9735	9732	9729	9726
275.0	9764	9761	9757	9754	9751	9748	9745	9742	9739	9736
276.0	9774	9771	9767	9764	9761	9758	9755	9752	9749	9746
277.0	9784	9781	9777	9774	9771	9768	9765	9762	9759	9756
278.0	9794	9791	9787	9784	9781	9778	9775	9772	9769	9766
279.0	9804	9801	9797	9794	9791	9788	9785	9782	9779	9776
280.0	9814	9811	9807	9804	9801	9798	9795	9792	9789	9786
281.0	9824	9821	9817	9814	9811	9808	9805	9802	9799	9796
282.0	9834	9831	9827	9824	9821	9818	9815	9812	9809	9806
283.0	9844	9841	9837	9834	9831	9828	9825	9822	9819	9816
284.0	9854	9851	9847	9844	9841	9838	9835	9832	9829	9826
285.0	9864	9861	9857	9854	9851	9848	9845	9842	9839	9836
286.0	9874	9871	9867	9864	9861	9858	9855	9852	9849	9846
287.0	9884	9881	9877	9874	9871	9868	9865	9862	9859	9856
288.0	9894	9891	9887	9884	9881	9878	9875	9872	9869	9866
289.0	9904	9901	9897	9894	9891	9888	9885	9882	9879	9876
290.0	9914	9911	9907	9904	9901	9898	9895	9892	9889	9886
291.0	9924	9921	9917	9914	9911	9908	9905	9902	9899	9896
292.0	9934	9931	9927	9924	9921	9918	9915	9912	9909	9906
293.0	9944	9941	9937	9934	9931	9928	9925	9922	9919	9916
294.0	9954	9951	9947	9944	9941	9938	9935	9932	9929	9926
295.0	9964	9961	9957	9954	9951	9948	9945	9942	9939	9936
296.0	9974	9971	9967	9964	9961	9958	9955	9952	9949	9946
297.0	9984	9981	9977	9974	9971	9968	9965	9962	9959	9956
298.0	9994	9991	9987	9984	9981	9978	9975	9972	9969	9966
299.0	1000	9997	9993	9990	9987	9984	9981	9978	9975	9972
300.0	1001	1000	9996	9993	9990	9987	9984	9981	9978	9975
301.0	1002	1001	9997	9994	9991	9988	9985	9982	9979	9976
302.0	1003	1002	9998	9995	9992	9989	9986	9983	9980	9977
303.0	1004	1003	9999	9996	9993	9990	9987	9984	9981	9978
304.0	1005	1004	1000	9997	9994	9991	9988	9985	9982	9979
305.0	1006	1005	1001	9998	9995	9992	9989	9986	9983	9980
306.0	1007	1006	1002	9999	9996	9993	9990	9987	9984	9981
307.0	1008	1007	1003	1000	9997	9994	9991	9988	9985	9982
308.0	1009	1008	1004	1001	9998	9995	9992	9989	9986	9983
309.0	1010	1009	1005	1002	9999	9996	9993	9990	9987	9984
310.0	1011	1010	1006	1003	1000	9997	9994	9991	9988	9985
311.0	1012	1011	1007	1004	1001	9998	9995	9992	9989	9986
312.0	1013	1012	1008	1005	1002	9999	9996	9993	9990	9987
313.0	1014	1013	1009	1006	1003	1000	9997	9994	9991	9988
314.0	1015	1014	1010	1007	1004	1001	9998	9995	9992	9989
315.0	1016	1015	1011	1008	1005	1002	9999	9996	9993	9990
316.0	1017	1016	1012	1009	1006	1003	1000	9997	9994	9991
317.0	1018	1017	1013	1010	1007	1004	1001	9998	9995	9992
318.0	1019	1018	1014	1011	1008	1005	1002	9999	9996	9993
319.0	1020	1019	1015	1012	1009	1006	1003	1000	9997	9994

TABLE VIII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
320.0	6727	6725	6723	6720	6718	6716	6714	6711	6709	6707
321.0	6709	6707	6705	6702	6700	6698	6696	6693	6691	6689
322.0	6691	6689	6687	6684	6682	6680	6677	6675	6673	6671
323.0	6673	6671	6669	6666	6664	6662	6659	6657	6655	6653
324.0	6655	6653	6651	6648	6646	6644	6641	6639	6637	6635
325.0	6637	6635	6633	6630	6628	6626	6623	6621	6619	6617
326.0	6619	6617	6615	6612	6610	6608	6605	6603	6601	6599
327.0	6601	6599	6597	6594	6592	6590	6587	6585	6583	6581
328.0	6583	6581	6579	6576	6574	6572	6569	6567	6565	6563
329.0	6565	6563	6561	6558	6556	6554	6551	6549	6547	6545
330.0	6547	6545	6543	6540	6538	6536	6533	6531	6529	6527
331.0	6529	6527	6525	6522	6520	6518	6515	6513	6511	6509
332.0	6511	6509	6507	6504	6502	6500	6497	6495	6493	6491
333.0	6493	6491	6489	6486	6484	6482	6479	6477	6475	6473
334.0	6475	6473	6471	6468	6466	6464	6461	6459	6457	6455
335.0	6457	6455	6453	6450	6448	6446	6443	6441	6439	6437
336.0	6439	6437	6435	6432	6430	6428	6425	6423	6421	6419
337.0	6431	6429	6427	6424	6422	6420	6417	6415	6413	6411
338.0	6413	6411	6409	6406	6404	6402	6399	6397	6395	6393
339.0	6395	6393	6391	6388	6386	6384	6381	6379	6377	6375
340.0	6377	6375	6373	6370	6368	6366	6363	6361	6359	6357
341.0	6359	6357	6355	6352	6350	6348	6345	6343	6341	6339
342.0	6341	6339	6337	6334	6332	6330	6327	6325	6323	6321
343.0	6323	6321	6319	6316	6314	6312	6309	6307	6305	6303
344.0	6305	6303	6301	6298	6296	6294	6291	6289	6287	6285
345.0	6287	6285	6283	6280	6278	6276	6273	6271	6269	6267
346.0	6269	6267	6265	6262	6260	6258	6255	6253	6251	6249
347.0	6249	6247	6245	6242	6240	6238	6235	6233	6231	6229
348.0	6231	6229	6227	6224	6222	6220	6217	6215	6213	6211
349.0	6213	6211	6209	6206	6204	6202	6199	6197	6195	6193
350.0	6195	6193	6191	6188	6186	6184	6181	6179	6177	6175
351.0	6177	6175	6173	6170	6168	6166	6163	6161	6159	6157
352.0	6159	6157	6155	6152	6150	6148	6145	6143	6141	6139
353.0	6141	6139	6137	6134	6132	6130	6127	6125	6123	6121
354.0	6123	6121	6119	6116	6114	6112	6109	6107	6105	6103
355.0	6105	6103	6101	6098	6096	6094	6091	6089	6087	6085
356.0	6087	6085	6083	6080	6078	6076	6073	6071	6069	6067
357.0	6069	6067	6065	6062	6060	6058	6055	6053	6051	6049
358.0	6051	6049	6047	6044	6042	6040	6037	6035	6033	6031
359.0	6033	6031	6029	6026	6024	6022	6019	6017	6015	6013
360.0	6015	6013	6011	6008	6006	6004	6001	5999	5997	5995
361.0	5997	5995	5993	5990	5988	5986	5983	5981	5979	5977
362.0	5979	5977	5975	5972	5970	5968	5965	5963	5961	5959
363.0	5959	5957	5955	5952	5950	5948	5945	5943	5941	5939
364.0	5941	5939	5937	5934	5932	5930	5927	5925	5923	5921
365.0	5923	5921	5919	5916	5914	5912	5909	5907	5905	5903
366.0	5905	5903	5901	5898	5896	5894	5891	5889	5887	5885
367.0	5887	5885	5883	5880	5878	5876	5873	5871	5869	5867
368.0	5869	5867	5865	5862	5860	5858	5855	5853	5851	5849
369.0	5849	5847	5845	5842	5840	5838	5835	5833	5831	5829
370.0	5829	5827	5825	5822	5820	5818	5815	5813	5811	5809
371.0	5809	5807	5805	5802	5800	5798	5795	5793	5791	5789
372.0	5789	5787	5785	5782	5780	5778	5775	5773	5771	5769
373.0	5769	5767	5765	5762	5760	5758	5755	5753	5751	5749
374.0	5749	5747	5745	5742	5740	5738	5735	5733	5731	5729
375.0	5729	5727	5725	5722	5720	5718	5715	5713	5711	5709
376.0	5709	5707	5705	5702	5700	5698	5695	5693	5691	5689
377.0	5689	5687	5685	5682	5680	5678	5675	5673	5671	5669
378.0	5669	5667	5665	5662	5660	5658	5655	5653	5651	5649
379.0	5649	5647	5645	5642	5640	5638	5635	5633	5631	5629
380.0	5629	5627	5625	5622	5620	5618	5615	5613	5611	5609
381.0	5609	5607	5605	5602	5600	5598	5595	5593	5591	5589
382.0	5589	5587	5585	5582	5580	5578	5575	5573	5571	5569
383.0	5569	5567	5565	5562	5560	5558	5555	5553	5551	5549
384.0	5549	5547	5545	5542	5540	5538	5535	5533	5531	5529
385.0	5529	5527	5525	5522	5520	5518	5515	5513	5511	5509
386.0	5509	5507	5505	5502	5500	5498	5495	5493	5491	5489
387.0	5489	5487	5485	5482	5480	5478	5475	5473	5471	5469
388.0	5469	5467	5465	5462	5460	5458	5455	5453	5451	5449
389.0	5449	5447	5445	5442	5440	5438	5435	5433	5431	5429
390.0	5429	5427	5425	5422	5420	5418	5415	5413	5411	5409
391.0	5409	5407	5405	5402	5400	5398	5395	5393	5391	5389
392.0	5389	5387	5385	5382	5380	5378	5375	5373	5371	5369
393.0	5369	5367	5365	5362	5360	5358	5355	5353	5351	5349
394.0	5349	5347	5345	5342	5340	5338	5335	5333	5331	5329
395.0	5329	5327	5325	5322	5320	5318	5315	5313	5311	5309
396.0	5309	5307	5305	5302	5300	5298	5295	5293	5291	5289
397.0	5289	5287	5285	5282	5280	5278	5275	5273	5271	5269
398.0	5269	5267	5265	5262	5260	5258	5255	5253	5251	5249
399.0	5249	5247	5245	5242	5240	5238	5235	5233	5231	5229
400.0	5229	5227	5225	5222	5220	5218	5215	5213	5211	5209
401.0	5209	5207	5205	5202	5200	5198	5195	5193	5191	5189
402.0	5189	5187	5185	5182	5180	5178	5175	5173	5171	5169
403.0	5169	5167	5165	5162	5160	5158	5155	5153	5151	5149
404.0	5149	5147	5145	5142	5140	5138	5135	5133	5131	5129
405.0	5129	5127	5125	5122	5120	5118	5115	5113	5111	5109
406.0	5109	5107	5105	5102	5100	5098	5095	5093	5091	5089
407.0	5089	5087	5085	5082	5080	5078	5075	5073	5071	5069
408.0	5069	5067	5065	5062	5060	5058	5055	5053	5051	5049
409.0	5049	5047	5045	5042	5040	5038	5035	5033	5031	5029
410.0	5029	5027	5025	5022	5020	5018	5015	5013	5011	5009
411.0	5009	5007	5005	5002	5000	4998	4995	4993	4991	4989
412.0	4989	4987	4985	4982	4980	4978	4975	4973	4971	4969
413.0	4969	4967	4965	4962	4960	4958	4955	4953	4951	4949
414.0	4949	4947	4945	4942	4940	4938	4935	4933	4931	4929
415.0	4929	4927	4925	4922	4920	4918	4915	4913	4911	4909
416.0	4909	4907	4905	4902	4900	4898	4895	4893	4891	4889
417.0	4889	4887	4885	4882	4880	4878	4875	4873	4871	4869
418.0	4869	4867	4865	4862	4860	4858	4855	4853	4851	4849
419.0	4849	4847	4845	4842	4840	4838	4835	4833	4831	4829
420.0	4829	4827	4825	4822	4820	4818	4815	4813	4811	4809
421.0	4809	4807	4805	4802	4800	4798	4795	4793	4791	4789
422.0	4789	4787	4785	4782	4780	4778	4775	4773	4771	4769
423.0	4769	4767	4765	4762	4760	4758	4755	4753	4751	4749
424.0	4749	4747	4745	4742	4740	4738	4735	4733	4731	4729
425.0	4729	4727	4725	4722	4720	4718	4715	4713	4711	4709
426.0	4709	4707	4705	4702	4700	4698	4695	4693	4691	4689
427.0	4689	4687	4685	4682	4680	4678	4675	4673	4671	4669
428.0	4669	4667	4665	4662	4660	4658	4655	4653	4651	4649
429.0	4649	4647	4645	4642	4640	4638	4635	4633	4631	4629
430.0	4629	4627	4625	4622	4620	4618	4615	4613	4611	4609
431.0	4609	4607	4605	4602	4600	4598	4595	4593	4591	4589
432.0	4589	4587	4585	4582	4580	4578	4575	4573	4571	4569
433.0	4569	4567	4565	4562	4560	4558	4555	4553	4551	4549
434.0	4549	4547	4545	4542	4540	4538	4535	4533	4531	4529
435.0	4529	4527	4525	4522	4520	4518	451			

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
420.0	4730	4729	4727	4726	4723	4721	4720	4718	4716	4714
421.0	4712	4711	4709	4707	4705	4703	4702	4700	4698	4696
422.0	4694	4693	4691	4689	4687	4686	4684	4682	4680	4678
423.0	4677	4675	4673	4671	4669	4668	4666	4664	4662	4661
424.0	4660	4659	4657	4655	4653	4652	4650	4648	4646	4645
425.0	4641	4640	4637	4635	4633	4632	4630	4628	4627	4625
426.0	4623	4622	4620	4618	4616	4614	4613	4611	4609	4607
427.0	4604	4602	4600	4598	4596	4595	4593	4591	4589	4587
428.0	4586	4584	4582	4580	4578	4577	4575	4573	4571	4569
429.0	4567	4566	4564	4563	4561	4560	4558	4556	4554	4552
430.0	4549	4547	4545	4543	4541	4540	4538	4536	4534	4532
431.0	4530	4529	4527	4525	4523	4522	4520	4518	4516	4514
432.0	4511	4510	4508	4506	4504	4503	4501	4499	4497	4495
433.0	4492	4491	4489	4487	4485	4484	4482	4480	4478	4476
434.0	4473	4472	4470	4468	4466	4465	4463	4461	4459	4457
435.0	4454	4453	4451	4449	4447	4446	4444	4442	4440	4438
436.0	4435	4434	4432	4430	4428	4427	4425	4423	4421	4419
437.0	4416	4415	4413	4411	4409	4408	4406	4404	4402	4400
438.0	4397	4396	4394	4392	4390	4389	4387	4385	4383	4381
439.0	4378	4377	4375	4373	4371	4370	4368	4366	4364	4363
440.0	4359	4358	4356	4354	4352	4351	4349	4347	4345	4343
441.0	4340	4339	4337	4335	4333	4332	4330	4328	4326	4324
442.0	4321	4320	4318	4316	4314	4313	4311	4309	4307	4305
443.0	4302	4301	4299	4297	4295	4294	4292	4290	4288	4286
444.0	4283	4282	4280	4278	4276	4275	4273	4271	4269	4267
445.0	4264	4263	4261	4259	4257	4256	4254	4252	4250	4248
446.0	4245	4244	4242	4240	4238	4237	4235	4233	4231	4229
447.0	4226	4225	4223	4221	4219	4218	4216	4214	4212	4210
448.0	4207	4206	4204	4202	4200	4199	4197	4195	4193	4191
449.0	4188	4187	4185	4183	4181	4180	4178	4176	4174	4172
450.0	4169	4168	4166	4164	4162	4161	4159	4157	4155	4153
451.0	4150	4149	4147	4145	4143	4142	4140	4138	4136	4134
452.0	4131	4130	4128	4126	4124	4123	4121	4119	4117	4115
453.0	4112	4111	4109	4107	4105	4104	4102	4100	4098	4096
454.0	4097	4096	4094	4092	4090	4089	4087	4085	4083	4081
455.0	4078	4077	4075	4073	4071	4070	4068	4066	4064	4062
456.0	4059	4058	4056	4054	4052	4051	4049	4047	4045	4043
457.0	4039	4037	4035	4033	4031	4030	4028	4026	4024	4022
458.0	4020	4019	4017	4015	4013	4012	4010	4008	4006	4004
459.0	4001	4000	3998	3996	3994	3993	3991	3989	3987	3985
460.0	3982	3981	3979	3977	3975	3974	3972	3970	3968	3966
461.0	3967	3966	3964	3962	3960	3959	3957	3955	3953	3951
462.0	3952	3951	3949	3947	3945	3944	3942	3940	3938	3936
463.0	3937	3936	3934	3932	3930	3929	3927	3925	3923	3921
464.0	3917	3916	3914	3912	3910	3909	3907	3905	3903	3901
465.0	3898	3897	3895	3893	3891	3890	3888	3886	3884	3882
466.0	3879	3878	3876	3874	3872	3871	3869	3867	3865	3863
467.0	3859	3858	3856	3854	3852	3851	3849	3847	3845	3843
468.0	3840	3839	3837	3835	3833	3832	3830	3828	3826	3824
469.0	3821	3820	3818	3816	3814	3813	3811	3809	3807	3805
470.0	3802	3801	3799	3797	3795	3794	3792	3790	3788	3786
471.0	3787	3786	3784	3782	3780	3779	3777	3775	3773	3771
472.0	3767	3766	3764	3762	3760	3759	3757	3755	3753	3751
473.0	3747	3746	3744	3742	3740	3739	3737	3735	3733	3731
474.0	3727	3726	3724	3722	3720	3719	3717	3715	3713	3711
475.0	3707	3706	3704	3702	3700	3699	3697	3695	3693	3691
476.0	3687	3686	3684	3682	3680	3679	3677	3675	3673	3671
477.0	3667	3666	3664	3662	3660	3659	3657	3655	3653	3651
478.0	3647	3646	3644	3642	3640	3639	3637	3635	3633	3631
479.0	3627	3626	3624	3622	3620	3619	3617	3615	3613	3611
480.0	3607	3606	3604	3602	3600	3599	3597	3595	3593	3591
481.0	3587	3586	3584	3582	3580	3579	3577	3575	3573	3571
482.0	3567	3566	3564	3562	3560	3559	3557	3555	3553	3551
483.0	3547	3546	3544	3542	3540	3539	3537	3535	3533	3531
484.0	3527	3526	3524	3522	3520	3519	3517	3515	3513	3511
485.0	3507	3506	3504	3502	3500	3499	3497	3495	3493	3491
486.0	3487	3486	3484	3482	3480	3479	3477	3475	3473	3471
487.0	3467	3466	3464	3462	3460	3459	3457	3455	3453	3451
488.0	3447	3446	3444	3442	3440	3439	3437	3435	3433	3431
489.0	3427	3426	3424	3422	3420	3419	3417	3415	3413	3411
490.0	3407	3406	3404	3402	3400	3399	3397	3395	3393	3391
491.0	3387	3386	3384	3382	3380	3379	3377	3375	3373	3371
492.0	3367	3366	3364	3362	3360	3359	3357	3355	3353	3351
493.0	3347	3346	3344	3342	3340	3339	3337	3335	3333	3331
494.0	3327	3326	3324	3322	3320	3319	3317	3315	3313	3311
495.0	3307	3306	3304	3302	3300	3299	3297	3295	3293	3291
496.0	3287	3286	3284	3282	3280	3279	3277	3275	3273	3271
497.0	3267	3266	3264	3262	3260	3259	3257	3255	3253	3251
498.0	3247	3246	3244	3242	3240	3239	3237	3235	3233	3231
499.0	3227	3226	3224	3222	3220	3219	3217	3215	3213	3211
500.0	3207	3206	3204	3202	3200	3199	3197	3195	3193	3191
501.0	3187	3186	3184	3182	3180	3179	3177	3175	3173	3171
502.0	3167	3166	3164	3162	3160	3159	3157	3155	3153	3151
503.0	3147	3146	3144	3142	3140	3139	3137	3135	3133	3131
504.0	3127	3126	3124	3122	3120	3119	3117	3115	3113	3111
505.0	3107	3106	3104	3102	3100	3099	3097	3095	3093	3091
506.0	3087	3086	3084	3082	3080	3079	3077	3075	3073	3071
507.0	3067	3066	3064	3062	3060	3059	3057	3055	3053	3051
508.0	3047	3046	3044	3042	3040	3039	3037	3035	3033	3031
509.0	3027	3026	3024	3022	3020	3019	3017	3015	3013	3011
510.0	3007	3006	3004	3002	3000	2999	2997	2995	2993	2991
511.0	2987	2986	2984	2982	2980	2979	2977	2975	2973	2971
512.0	2967	2966	2964	2962	2960	2959	2957	2955	2953	2951
513.0	2947	2946	2944	2942	2940	2939	2937	2935	2933	2931
514.0	2927	2926	2924	2922	2920	2919	2917	2915	2913	2911
515.0	2907	2906	2904	2902	2900	2899	2897	2895	2893	2891
516.0	2887	2886	2884	2882	2880	2879	2877	2875	2873	2871
517.0	2867	2866	2864	2862	2860	2859	2857	2855	2853	2851
518.0	2847	2846	2844	2842	2840	2839	2837	2835	2833	2831
519.0	2827	2826	2824	2822	2820	2819	2817	2815	2813	2811

TABLE VIII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
520.0	3088	3084	3080	3073	3067	3060	3059	3077	3076	3074
521.0	3087	3083	3079	3072	3066	3059	3058	3076	3075	3073
522.0	3086	3082	3078	3071	3065	3058	3057	3075	3074	3072
523.0	3085	3081	3077	3070	3064	3057	3056	3074	3073	3071
524.0	3084	3080	3076	3069	3063	3056	3055	3073	3072	3070
525.0	3083	3079	3075	3068	3062	3055	3054	3072	3071	3069
526.0	3082	3078	3074	3067	3061	3054	3053	3071	3070	3068
527.0	3081	3077	3073	3066	3060	3053	3052	3070	3069	3067
528.0	3080	3076	3072	3065	3059	3052	3051	3069	3068	3066
529.0	3079	3075	3071	3064	3058	3051	3050	3068	3067	3065
530.0	3078	3074	3070	3063	3057	3050	3049	3067	3066	3064
531.0	3077	3073	3069	3062	3056	3049	3048	3066	3065	3063
532.0	3076	3072	3068	3061	3055	3048	3047	3065	3064	3062
533.0	3075	3071	3067	3060	3054	3047	3046	3064	3063	3061
534.0	3074	3070	3066	3059	3053	3046	3045	3063	3062	3060
535.0	3073	3069	3065	3058	3052	3045	3044	3062	3061	3059
536.0	3072	3068	3064	3057	3051	3044	3043	3061	3060	3058
537.0	3071	3067	3063	3056	3050	3043	3042	3060	3059	3057
538.0	3070	3066	3062	3055	3049	3042	3041	3059	3058	3056
539.0	3069	3065	3061	3054	3048	3041	3040	3058	3057	3055
540.0	3068	3064	3060	3053	3047	3040	3039	3057	3056	3054
541.0	3067	3063	3059	3052	3046	3039	3038	3056	3055	3053
542.0	3066	3062	3058	3051	3045	3038	3037	3055	3054	3052
543.0	3065	3061	3057	3050	3044	3037	3036	3054	3053	3051
544.0	3064	3060	3056	3049	3043	3036	3035	3053	3052	3050
545.0	3063	3059	3055	3048	3042	3035	3034	3052	3051	3049
546.0	3062	3058	3054	3047	3041	3034	3033	3051	3050	3048
547.0	3061	3057	3053	3046	3040	3033	3032	3050	3049	3047
548.0	3060	3056	3052	3045	3039	3032	3031	3049	3048	3046
549.0	3059	3055	3051	3044	3038	3031	3030	3048	3047	3045
550.0	3058	3054	3050	3043	3037	3030	3029	3047	3046	3044
551.0	3057	3053	3049	3042	3036	3029	3028	3046	3045	3043
552.0	3056	3052	3048	3041	3035	3028	3027	3045	3044	3042
553.0	3055	3051	3047	3040	3034	3027	3026	3044	3043	3041
554.0	3054	3050	3046	3039	3033	3026	3025	3043	3042	3040
555.0	3053	3049	3045	3038	3032	3025	3024	3042	3041	3039
556.0	3052	3048	3044	3037	3031	3024	3023	3041	3040	3038
557.0	3051	3047	3043	3036	3030	3023	3022	3040	3039	3037
558.0	3050	3046	3042	3035	3029	3022	3021	3039	3038	3036
559.0	3049	3045	3041	3034	3028	3021	3020	3038	3037	3035
560.0	3048	3044	3040	3033	3027	3020	3019	3037	3036	3034
561.0	3047	3043	3039	3032	3026	3019	3018	3036	3035	3033
562.0	3046	3042	3038	3031	3025	3018	3017	3035	3034	3032
563.0	3045	3041	3037	3030	3024	3017	3016	3034	3033	3031
564.0	3044	3040	3036	3029	3023	3016	3015	3033	3032	3030
565.0	3043	3039	3035	3028	3022	3015	3014	3032	3031	3029
566.0	3042	3038	3034	3027	3021	3014	3013	3031	3030	3028
567.0	3041	3037	3033	3026	3020	3013	3012	3030	3029	3027
568.0	3040	3036	3032	3025	3019	3012	3011	3029	3028	3026
569.0	3039	3035	3031	3024	3018	3011	3010	3028	3027	3025
570.0	3038	3034	3030	3023	3017	3010	3009	3027	3026	3024
571.0	3037	3033	3029	3022	3016	3009	3008	3026	3025	3023
572.0	3036	3032	3028	3021	3015	3008	3007	3025	3024	3022
573.0	3035	3031	3027	3020	3014	3007	3006	3024	3023	3021
574.0	3034	3030	3026	3019	3013	3006	3005	3023	3022	3020
575.0	3033	3029	3025	3018	3012	3005	3004	3022	3021	3019
576.0	3032	3028	3024	3017	3011	3004	3003	3021	3020	3018
577.0	3031	3027	3023	3016	3010	3003	3002	3020	3019	3017
578.0	3030	3026	3022	3015	3009	3002	3001	3019	3018	3016
579.0	3029	3025	3021	3014	3008	3001	3000	3018	3017	3015
580.0	3028	3024	3020	3013	3007	3000	2999	3017	3016	3014
581.0	3027	3023	3019	3012	3006	2999	2998	3016	3015	3013
582.0	3026	3022	3018	3011	3005	2998	2997	3015	3014	3012
583.0	3025	3021	3017	3010	3004	2997	2996	3014	3013	3011
584.0	3024	3020	3016	3009	3003	2996	2995	3013	3012	3010
585.0	3023	3019	3015	3008	3002	2995	2994	3012	3011	3009
586.0	3022	3018	3014	3007	3001	2994	2993	3011	3010	3008
587.0	3021	3017	3013	3006	3000	2993	2992	3010	3009	3007
588.0	3020	3016	3012	3005	2999	2992	2991	3009	3008	3006
589.0	3019	3015	3011	3004	2998	2991	2990	3008	3007	3005
590.0	3018	3014	3010	3003	2997	2990	2989	3007	3006	3004
591.0	3017	3013	3009	3002	2996	2989	2988	3006	3005	3003
592.0	3016	3012	3008	3001	2995	2988	2987	3005	3004	3002
593.0	3015	3011	3007	3000	2994	2987	2986	3004	3003	3001
594.0	3014	3010	3006	2999	2993	2986	2985	3003	3002	3000
595.0	3013	3009	3005	2998	2992	2985	2984	3002	3001	2999
596.0	3012	3008	3004	2997	2991	2984	2983	3001	3000	2998
597.0	3011	3007	3003	2996	2990	2983	2982	3000	2999	2997
598.0	3010	3006	3002	2995	2989	2982	2981	2999	2998	2996
599.0	3009	3005	3001	2994	2988	2981	2980	2998	2997	2995
600.0	3008	3004	3000	2993	2987	2980	2979	2997	2996	2994
601.0	3007	3003	2999	2992	2986	2979	2978	2996	2995	2993
602.0	3006	3002	2998	2991	2985	2978	2977	2995	2994	2992
603.0	3005	3001	2997	2990	2984	2977	2976	2994	2993	2991
604.0	3004	3000	2996	2989	2983	2976	2975	2993	2992	2990
605.0	3003	2999	2995	2988	2982	2975	2974	2992	2991	2989
606.0	3002	2998	2994	2987	2981	2974	2973	2991	2990	2988
607.0	3001	2997	2993	2986	2980	2973	2972	2990	2989	2987
608.0	3000	2996	2992	2985	2979	2972	2971	2989	2988	2986
609.0	2999	2995	2991	2984	2978	2971	2970	2988	2987	2985
610.0	2998	2994	2990	2983	2977	2970	2969	2987	2986	2984
611.0	2997	2993	2989	2982	2976	2969	2968	2986	2985	2983
612.0	2996	2992	2988	2981	2975	2968	2967	2985	2984	2982
613.0	2995	2991	2987	2980	2974	2967	2966	2984	2983	2981
614.0	2994	2990	2986	2979	2973	2966	2965	2983	2982	2980
615.0	2993	2989	2985	2978	2972	2965	2964	2982	2981	2979
616.0	2992	2988	2984	2977	2971	2964	2963	2981	2980	2978
617.0	2991	2987	2983	2976	2970	2963	2962	2980	2979	2977
618.0	2990	2986	2982	2975	2969	2962	2961	2979	2978	2976
619.0	2989	2985	2981	2974	2968	2961	2960	2978	2977	2975

GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
620.0	1484	1483	1482	1480	1479	1478	1477	1475	1474	1473
621.0	1471	1470	1469	1467	1466	1465	1464	1462	1461	1460
622.0	1458	1457	1456	1454	1453	1452	1450	1449	1448	1447
623.0	1445	1444	1443	1441	1440	1439	1437	1436	1435	1434
624.0	1432	1431	1430	1428	1427	1426	1424	1423	1422	1421
625.0	1419	1418	1417	1415	1414	1413	1411	1410	1409	1408
626.0	1406	1405	1404	1402	1401	1400	1398	1397	1396	1395
627.0	1393	1392	1391	1389	1388	1387	1385	1384	1383	1382
628.0	1380	1379	1378	1376	1375	1374	1372	1371	1370	1369
629.0	1367	1366	1365	1363	1362	1361	1359	1358	1357	1356
630.0	1354	1353	1352	1350	1349	1348	1346	1345	1344	1343
631.0	1341	1340	1339	1337	1336	1335	1333	1332	1331	1330
632.0	1328	1327	1326	1324	1323	1322	1320	1319	1318	1317
633.0	1315	1314	1313	1311	1310	1309	1307	1306	1305	1304
634.0	1302	1301	1300	1298	1297	1296	1294	1293	1292	1291
635.0	1289	1288	1287	1285	1284	1283	1281	1280	1279	1278
636.0	1276	1275	1274	1272	1271	1270	1268	1267	1266	1265
637.0	1263	1262	1261	1259	1258	1257	1255	1254	1253	1252
638.0	1249	1248	1247	1245	1244	1243	1241	1240	1239	1238
639.0	1236	1235	1234	1232	1231	1230	1228	1227	1226	1225
640.0	1233	1232	1231	1229	1228	1227	1225	1224	1223	1222
641.0	1230	1229	1228	1226	1225	1224	1222	1221	1220	1219
642.0	1227	1226	1225	1223	1222	1221	1219	1218	1217	1216
643.0	1224	1223	1222	1220	1219	1218	1216	1215	1214	1213
644.0	1221	1220	1219	1217	1216	1215	1213	1212	1211	1210
645.0	1218	1217	1216	1214	1213	1212	1210	1209	1208	1207
646.0	1215	1214	1213	1211	1210	1209	1207	1206	1205	1204
647.0	1212	1211	1210	1208	1207	1206	1204	1203	1202	1201
648.0	1209	1208	1207	1205	1204	1203	1201	1200	1199	1198
649.0	1206	1205	1204	1202	1201	1200	1198	1197	1196	1195
650.0	1203	1202	1201	1199	1198	1197	1195	1194	1193	1192
651.0	1200	1199	1198	1196	1195	1194	1192	1191	1190	1189
652.0	1197	1196	1195	1193	1192	1191	1189	1188	1187	1186
653.0	1194	1193	1192	1190	1189	1188	1186	1185	1184	1183
654.0	1191	1190	1189	1187	1186	1185	1183	1182	1181	1180
655.0	1188	1187	1186	1184	1183	1182	1180	1179	1178	1177
656.0	1185	1184	1183	1181	1180	1179	1177	1176	1175	1174
657.0	1182	1181	1180	1178	1177	1176	1174	1173	1172	1171
658.0	1179	1178	1177	1175	1174	1173	1171	1170	1169	1168
659.0	1176	1175	1174	1172	1171	1170	1168	1167	1166	1165
660.0	1173	1172	1171	1169	1168	1167	1165	1164	1163	1162
661.0	1170	1169	1168	1166	1165	1164	1162	1161	1160	1159
662.0	1167	1166	1165	1163	1162	1161	1159	1158	1157	1156
663.0	1164	1163	1162	1160	1159	1158	1156	1155	1154	1153
664.0	1161	1160	1159	1157	1156	1155	1153	1152	1151	1150
665.0	1158	1157	1156	1154	1153	1152	1150	1149	1148	1147
666.0	1155	1154	1153	1151	1150	1149	1147	1146	1145	1144
667.0	1152	1151	1150	1148	1147	1146	1144	1143	1142	1141
668.0	1149	1148	1147	1145	1144	1143	1141	1140	1139	1138
669.0	1146	1145	1144	1142	1141	1140	1138	1137	1136	1135
670.0	1143	1142	1141	1139	1138	1137	1135	1134	1133	1132
671.0	1140	1139	1138	1136	1135	1134	1132	1131	1130	1129
672.0	1137	1136	1135	1133	1132	1131	1129	1128	1127	1126
673.0	1134	1133	1132	1130	1129	1128	1126	1125	1124	1123
674.0	1131	1130	1129	1127	1126	1125	1123	1122	1121	1120
675.0	1128	1127	1126	1124	1123	1122	1120	1119	1118	1117
676.0	1125	1124	1123	1121	1120	1119	1117	1116	1115	1114
677.0	1122	1121	1120	1118	1117	1116	1114	1113	1112	1111
678.0	1119	1118	1117	1115	1114	1113	1111	1110	1109	1108
679.0	1116	1115	1114	1112	1111	1110	1108	1107	1106	1105
680.0	1113	1112	1111	1109	1108	1107	1105	1104	1103	1102
681.0	1110	1109	1108	1106	1105	1104	1102	1101	1100	1099
682.0	1107	1106	1105	1103	1102	1101	1099	1098	1097	1096
683.0	1104	1103	1102	1100	1099	1098	1096	1095	1094	1093
684.0	1101	1100	1099	1097	1096	1095	1093	1092	1091	1090
685.0	1098	1097	1096	1094	1093	1092	1090	1089	1088	1087
686.0	1095	1094	1093	1091	1090	1089	1087	1086	1085	1084
687.0	1092	1091	1090	1088	1087	1086	1084	1083	1082	1081
688.0	1089	1088	1087	1085	1084	1083	1081	1080	1079	1078
689.0	1086	1085	1084	1082	1081	1080	1078	1077	1076	1075
690.0	1083	1082	1081	1079	1078	1077	1075	1074	1073	1072
691.0	1080	1079	1078	1076	1075	1074	1072	1071	1070	1069
692.0	1077	1076	1075	1073	1072	1071	1069	1068	1067	1066
693.0	1074	1073	1072	1070	1069	1068	1066	1065	1064	1063
694.0	1071	1070	1069	1067	1066	1065	1063	1062	1061	1060
695.0	1068	1067	1066	1064	1063	1062	1060	1059	1058	1057
696.0	1065	1064	1063	1061	1060	1059	1057	1056	1055	1054
697.0	1062	1061	1060	1058	1057	1056	1054	1053	1052	1051
698.0	1059	1058	1057	1055	1054	1053	1051	1050	1049	1048
699.0	1056	1055	1054	1052	1051	1050	1048	1047	1046	1045
700.0	1053	1052	1051	1049	1048	1047	1045	1044	1043	1042
701.0	1050	1049	1048	1046	1045	1044	1042	1041	1040	1039
702.0	1047	1046	1045	1043	1042	1041	1039	1038	1037	1036
703.0	1044	1043	1042	1040	1039	1038	1036	1035	1034	1033
704.0	1041	1040	1039	1037	1036	1035	1033	1032	1031	1030
705.0	1038	1037	1036	1034	1033	1032	1030	1029	1028	1027
706.0	1035	1034	1033	1031	1030	1029	1027	1026	1025	1024
707.0	1032	1031	1030	1028	1027	1026	1024	1023	1022	1021
708.0	1029	1028	1027	1025	1024	1023	1021	1020	1019	1018
709.0	1026	1025	1024	1022	1021	1020	1018	1017	1016	1015
710.0	1023	1022	1021	1019	1018	1017	1015	1014	1013	1012
711.0	1020	1019	1018	1016	1015	1014	1012	1011	1010	1009
712.0	1017	1016	1015	1013	1012	1011	1009	1008	1007	1006
713.0	1014	1013	1012	1010	1009	1008	1006	1005	1004	1003
714.0	1011	1010	1009	1007	1006	1005	1003	1002	1001	1000
715.0	1008	1007	1006	1004	1003	1002	1000	999	998	997
716.0	1005	1004	1003	1001	1000	999	997	996	995	994
717.0	1002	1001	1000	998	997	996	994	993	992	991
718.0	999	998	997	995	994	993	991	990	989	988
719.0	996	995	994	992	991	990	988	987	986	985
720.0	993	992	991	989	988	987	985	984	983	982
721.0	990	989	988	986	985	984	982	981	980	979
722.0	987	986	985	983	982	981	979	978	977	976
723.0	984	983	982	980	979	978	976	975	974	973
724.0	981	980	979	977	976	975	973	972	971	970
725.0	978	977	976	974	973	972	970	969	968	967
726.0	975	974	973	971	970	969	967	966	965	964
727.0	972	971	970	968	967	966	964	963	962	961
728.0	969	968	967	965	964	963	961	960	959	958
729.0	966	965	964	962	961	960	958	957	956	955
730.0	963	962	961	959	958	957	955	954	953	952
731.0	960	959	958	956	955	954	952	951	950	949
732.0	957	956	955	953	952	951	949	948	947	946
733.0	954	953	952	950	949	948	946	945	944	943
734.0	951	950	949	947	946	945	943	942	941	940
735.0	948	947	946	944	943	942	940	939	938	937
736.0	945	944	943	941	940	939	937	936	935	934
737.0	942	941	940	938	937	936				

TABLE VIII - Continued

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
720.0	484	483	481	480	479	478	477	476	474	473
721.0	482	481	480	479	478	477	476	475	474	473
722.0	481	480	479	478	477	476	475	474	473	472
723.0	480	479	478	477	476	475	474	473	472	471
724.0	479	478	477	476	475	474	473	472	471	470
725.0	478	477	476	475	474	473	472	471	470	469
726.0	477	476	475	474	473	472	471	470	469	468
727.0	476	475	474	473	472	471	470	469	468	467
728.0	475	474	473	472	471	470	469	468	467	466
729.0	474	473	472	471	470	469	468	467	466	465
730.0	473	472	471	470	469	468	467	466	465	464
731.0	472	471	470	469	468	467	466	465	464	463
732.0	471	470	469	468	467	466	465	464	463	462
733.0	470	469	468	467	466	465	464	463	462	461
734.0	469	468	467	466	465	464	463	462	461	460
735.0	468	467	466	465	464	463	462	461	460	459
736.0	467	466	465	464	463	462	461	460	459	458
737.0	466	465	464	463	462	461	460	459	458	457
738.0	465	464	463	462	461	460	459	458	457	456
739.0	464	463	462	461	460	459	458	457	456	455
740.0	463	462	461	460	459	458	457	456	455	454
741.0	462	461	460	459	458	457	456	455	454	453
742.0	461	460	459	458	457	456	455	454	453	452
743.0	460	459	458	457	456	455	454	453	452	451
744.0	459	458	457	456	455	454	453	452	451	450
745.0	458	457	456	455	454	453	452	451	450	449
746.0	457	456	455	454	453	452	451	450	449	448
747.0	456	455	454	453	452	451	450	449	448	447
748.0	455	454	453	452	451	450	449	448	447	446
749.0	454	453	452	451	450	449	448	447	446	445
750.0	453	452	451	450	449	448	447	446	445	444
751.0	452	451	450	449	448	447	446	445	444	443
752.0	451	450	449	448	447	446	445	444	443	442
753.0	450	449	448	447	446	445	444	443	442	441
754.0	449	448	447	446	445	444	443	442	441	440
755.0	448	447	446	445	444	443	442	441	440	439
756.0	447	446	445	444	443	442	441	440	439	438
757.0	446	445	444	443	442	441	440	439	438	437
758.0	445	444	443	442	441	440	439	438	437	436
759.0	444	443	442	441	440	439	438	437	436	435
760.0	443	442	441	440	439	438	437	436	435	434
761.0	442	441	440	439	438	437	436	435	434	433
762.0	441	440	439	438	437	436	435	434	433	432
763.0	440	439	438	437	436	435	434	433	432	431
764.0	439	438	437	436	435	434	433	432	431	430
765.0	438	437	436	435	434	433	432	431	430	429
766.0	437	436	435	434	433	432	431	430	429	428
767.0	436	435	434	433	432	431	430	429	428	427
768.0	435	434	433	432	431	430	429	428	427	426
769.0	434	433	432	431	430	429	428	427	426	425
770.0	433	432	431	430	429	428	427	426	425	424
771.0	432	431	430	429	428	427	426	425	424	423
772.0	431	430	429	428	427	426	425	424	423	422
773.0	430	429	428	427	426	425	424	423	422	421
774.0	429	428	427	426	425	424	423	422	421	420
775.0	428	427	426	425	424	423	422	421	420	419
776.0	427	426	425	424	423	422	421	420	419	418
777.0	426	425	424	423	422	421	420	419	418	417
778.0	425	424	423	422	421	420	419	418	417	416
779.0	424	423	422	421	420	419	418	417	416	415
780.0	423	422	421	420	419	418	417	416	415	414
781.0	422	421	420	419	418	417	416	415	414	413
782.0	421	420	419	418	417	416	415	414	413	412
783.0	420	419	418	417	416	415	414	413	412	411
784.0	419	418	417	416	415	414	413	412	411	410
785.0	418	417	416	415	414	413	412	411	410	409
786.0	417	416	415	414	413	412	411	410	409	408
787.0	416	415	414	413	412	411	410	409	408	407
788.0	415	414	413	412	411	410	409	408	407	406
789.0	414	413	412	411	410	409	408	407	406	405
790.0	413	412	411	410	409	408	407	406	405	404
791.0	412	411	410	409	408	407	406	405	404	403
792.0	411	410	409	408	407	406	405	404	403	402
793.0	410	409	408	407	406	405	404	403	402	401
794.0	409	408	407	406	405	404	403	402	401	400
795.0	408	407	406	405	404	403	402	401	400	399
796.0	407	406	405	404	403	402	401	400	399	398
797.0	406	405	404	403	402	401	400	399	398	397
798.0	405	404	403	402	401	400	399	398	397	396
799.0	404	403	402	401	400	399	398	397	396	395
800.0	403	402	401	400	399	398	397	396	395	394
801.0	402	401	400	399	398	397	396	395	394	393
802.0	401	400	399	398	397	396	395	394	393	392
803.0	400	399	398	397	396	395	394	393	392	391
804.0	399	398	397	396	395	394	393	392	391	390
805.0	398	397	396	395	394	393	392	391	390	389
806.0	397	396	395	394	393	392	391	390	389	388
807.0	396	395	394	393	392	391	390	389	388	387
808.0	395	394	393	392	391	390	389	388	387	386
809.0	394	393	392	391	390	389	388	387	386	385
810.0	393	392	391	390	389	388	387	386	385	384
811.0	392	391	390	389	388	387	386	385	384	383
812.0	391	390	389	388	387	386	385	384	383	382
813.0	390	389	388	387	386	385	384	383	382	381
814.0	389	388	387	386	385	384	383	382	381	380
815.0	388	387	386	385	384	383	382	381	380	379
816.0	387	386	385	384	383	382	381	380	379	378
817.0	386	385	384	383	382	381	380	379	378	377
818.0	385	384	383	382	381	380	379	378	377	376
819.0	384	383	382	381	380	379	378	377	376	375

P, mm Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
820.0	-846	-847	-848	-849	-850	-851	-852	-853	-854	-855
821.0	-846	-847	-848	-849	-850	-851	-852	-853	-854	-855
822.0	-846	-847	-848	-849	-850	-851	-852	-853	-854	-855
823.0	-847	-848	-849	-850	-851	-852	-853	-854	-855	-856
824.0	-848	-849	-850	-851	-852	-853	-854	-855	-856	-857
825.0	-848	-849	-850	-851	-852	-853	-854	-855	-856	-857
826.0	-849	-850	-851	-852	-853	-854	-855	-856	-857	-858
827.0	-849	-850	-851	-852	-853	-854	-855	-856	-857	-858
828.0	-850	-851	-852	-853	-854	-855	-856	-857	-858	-859
829.0	-850	-851	-852	-853	-854	-855	-856	-857	-858	-859
830.0	-749	-750	-751	-752	-753	-754	-755	-756	-757	-758
831.0	-750	-751	-752	-753	-754	-755	-756	-757	-758	-759
832.0	-750	-751	-752	-753	-754	-755	-756	-757	-758	-759
833.0	-751	-752	-753	-754	-755	-756	-757	-758	-759	-760
834.0	-751	-752	-753	-754	-755	-756	-757	-758	-759	-760
835.0	-801	-802	-803	-804	-805	-806	-807	-808	-809	-810
836.0	-801	-802	-803	-804	-805	-806	-807	-808	-809	-810
837.0	-801	-802	-803	-804	-805	-806	-807	-808	-809	-810
838.0	-802	-803	-804	-805	-806	-807	-808	-809	-810	-811
839.0	-802	-803	-804	-805	-806	-807	-808	-809	-810	-811
840.0	-852	-853	-854	-855	-856	-857	-858	-859	-860	-861
841.0	-852	-853	-854	-855	-856	-857	-858	-859	-860	-861
842.0	-853	-854	-855	-856	-857	-858	-859	-860	-861	-862
843.0	-853	-854	-855	-856	-857	-858	-859	-860	-861	-862
844.0	-853	-854	-855	-856	-857	-858	-859	-860	-861	-862
845.0	-903	-904	-905	-906	-907	-908	-909	-910	-911	-912
846.0	-903	-904	-905	-906	-907	-908	-909	-910	-911	-912
847.0	-904	-905	-906	-907	-908	-909	-910	-911	-912	-913
848.0	-904	-905	-906	-907	-908	-909	-910	-911	-912	-913
849.0	-904	-905	-906	-907	-908	-909	-910	-911	-912	-913
850.0	-954	-955	-956	-957	-958	-959	-960	-961	-962	-963
851.0	-954	-955	-956	-957	-958	-959	-960	-961	-962	-963
852.0	-954	-955	-956	-957	-958	-959	-960	-961	-962	-963
853.0	-955	-956	-957	-958	-959	-960	-961	-962	-963	-964
854.0	-955	-956	-957	-958	-959	-960	-961	-962	-963	-964
855.0	-1005	-1006	-1007	-1008	-1009	-1010	-1011	-1012	-1013	-1014
856.0	-1005	-1006	-1007	-1008	-1009	-1010	-1011	-1012	-1013	-1014
857.0	-1005	-1006	-1007	-1008	-1009	-1010	-1011	-1012	-1013	-1014
858.0	-1005	-1006	-1007	-1008	-1009	-1010	-1011	-1012	-1013	-1014
859.0	-1005	-1006	-1007	-1008	-1009	-1010	-1011	-1012	-1013	-1014
860.0	-1055	-1056	-1057	-1058	-1059	-1060	-1061	-1062	-1063	-1064
861.0	-1055	-1056								

TABLE VIII - Concluded

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GEOPOTENTIAL ALTITUDE IN METERS as a function of PRESSURE IN MILLIMETERS OF MERCURY

P, mm Hg	0	1	2	3	4	5	6	7	8	9
900.	-1449	-1459	-1469	-1478	-1488	-1498	-1507	-1517	-1526	-1535
910.	-1446	-1456	-1466	-1475	-1485	-1495	-1504	-1514	-1523	-1532
920.	-1441	-1451	-1461	-1470	-1479	-1489	-1498	-1507	-1516	-1525
930.	-1436	-1445	-1455	-1464	-1473	-1483	-1492	-1501	-1510	-1519
940.	-1430	-1440	-1450	-1459	-1468	-1478	-1487	-1496	-1505	-1514
950.	-1423	-1433	-1442	-1451	-1460	-1469	-1478	-1487	-1496	-1505
960.	-1415	-1425	-1434	-1443	-1452	-1461	-1470	-1479	-1488	-1497
970.	-1406	-1415	-1424	-1433	-1442	-1451	-1460	-1469	-1478	-1487
980.	-1397	-1406	-1415	-1424	-1433	-1442	-1451	-1460	-1469	-1478
990.	-1387	-1396	-1405	-1414	-1423	-1432	-1441	-1450	-1459	-1468
1000.	-1376	-1385	-1394	-1403	-1412	-1421	-1430	-1439	-1448	-1457
1010.	-1366	-1375	-1384	-1393	-1402	-1411	-1420	-1429	-1438	-1447
1020.	-1355	-1364	-1373	-1382	-1391	-1400	-1409	-1418	-1427	-1436
1030.	-1344	-1353	-1362	-1371	-1380	-1389	-1398	-1407	-1416	-1425
1040.	-1333	-1342	-1351	-1360	-1369	-1378	-1387	-1396	-1405	-1414
1050.	-1322	-1331	-1340	-1349	-1358	-1367	-1376	-1385	-1394	-1403
1060.	-1311	-1320	-1329	-1338	-1347	-1356	-1365	-1374	-1383	-1392
1070.	-1300	-1309	-1318	-1327	-1336	-1345	-1354	-1363	-1372	-1381
1080.	-1289	-1298	-1307	-1316	-1325	-1334	-1343	-1352	-1361	-1370
1090.	-1278	-1287	-1296	-1305	-1314	-1323	-1332	-1341	-1350	-1359
1100.	-1267	-1276	-1285	-1294	-1303	-1312	-1321	-1330	-1339	-1348
1110.	-1256	-1265	-1274	-1283	-1292	-1301	-1310	-1319	-1328	-1337
1120.	-1245	-1254	-1263	-1272	-1281	-1290	-1299	-1308	-1317	-1326
1130.	-1234	-1243	-1252	-1261	-1270	-1279	-1288	-1297	-1306	-1315
1140.	-1223	-1232	-1241	-1250	-1259	-1268	-1277	-1286	-1295	-1304
1150.	-1212	-1221	-1230	-1239	-1248	-1257	-1266	-1275	-1284	-1293
1160.	-1201	-1210	-1219	-1228	-1237	-1246	-1255	-1264	-1273	-1282
1170.	-1190	-1199	-1208	-1217	-1226	-1235	-1244	-1253	-1262	-1271
1180.	-1179	-1188	-1197	-1206	-1215	-1224	-1233	-1242	-1251	-1260
1190.	-1168	-1177	-1186	-1195	-1204	-1213	-1222	-1231	-1240	-1249
1200.	-1157	-1166	-1175	-1184	-1193	-1202	-1211	-1220	-1229	-1238
1210.	-1146	-1155	-1164	-1173	-1182	-1191	-1200	-1209	-1218	-1227
1220.	-1135	-1144	-1153	-1162	-1171	-1180	-1189	-1198	-1207	-1216
1230.	-1124	-1133	-1142	-1151	-1160	-1169	-1178	-1187	-1196	-1205
1240.	-1113	-1122	-1131	-1140	-1149	-1158	-1167	-1176	-1185	-1194
1250.	-1102	-1111	-1120	-1129	-1138	-1147	-1156	-1165	-1174	-1183
1260.	-1091	-1100	-1109	-1118	-1127	-1136	-1145	-1154	-1163	-1172
1270.	-1080	-1089	-1098	-1107	-1116	-1125	-1134	-1143	-1152	-1161
1280.	-1069	-1078	-1087	-1096	-1105	-1114	-1123	-1132	-1141	-1150
1290.	-1058	-1067	-1076	-1085	-1094	-1103	-1112	-1121	-1130	-1139
1300.	-1047	-1056	-1065	-1074	-1083	-1092	-1101	-1110	-1119	-1128
1310.	-1036	-1045	-1054	-1063	-1072	-1081	-1090	-1099	-1108	-1117
1320.	-1025	-1034	-1043	-1052	-1061	-1070	-1079	-1088	-1097	-1106
1330.	-1014	-1023	-1032	-1041	-1050	-1059	-1068	-1077	-1086	-1095

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Table IX
GEOPOTENTIAL ALTITUDE IN FEET AS A FUNCTION OF PRESSURE IN
MILLIBARS

[illegible]

年	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
8.60										
8.70	104937	104911	104886	104861	104836	104811	104786	104761	104736	104711
8.80	104861	104836	104811	104786	104761	104736	104711	104686	104661	104636
8.90	104786	104761	104736	104711	104686	104661	104636	104611	104586	104561
9.00										
9.10	104561	104536	104511	104486	104461	104436	104411	104386	104361	104336
9.20	104486	104461	104436	104411	104386	104361	104336	104311	104286	104261
9.30	104411	104386	104361	104336	104311	104286	104261	104236	104211	104186
9.40	104336	104311	104286	104261	104236	104211	104186	104161	104136	104111
9.50	104261	104236	104211	104186	104161	104136	104111	104086	104061	104036
9.60	104186	104161	104136	104111	104086	104061	104036	104011	103986	103961
9.70	104111	104086	104061	104036	104011	103986	103961	103936	103911	103886
9.80	104036	104011	103986	103961	103936	103911	103886	103861	103836	103811
9.90	103961	103936	103911	103886	103861	103836	103811	103786	103761	103736

	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
12.00	101638	101641	101644	101647	101650	101653	101656	101659	101662	101665
12.10	101668	101671	101674	101677	101680	101683	101686	101689	101692	101695
12.20	101698	101701	101704	101707	101710	101713	101716	101719	101722	101725
12.30	101728	101731	101734	101737	101740	101743	101746	101749	101752	101755
12.40	101758	101761	101764	101767	101770	101773	101776	101779	101782	101785
12.50	101788	101791	101794	101797	101800	101803	101806	101809	101812	101815
13.00	101818	101821	101824	101827	101830	101833	101836	101839	101842	101845
13.10	101848	101851	101854	101857	101860	101863	101866	101869	101872	101875
13.20	101878	101881	101884	101887	101890	101893	101896	101899	101902	101905
13.30	101908	101911	101914	101917	101920	101923	101926	101929	101932	101935
13.40	101938	101941	101944	101947	101950	101953	101956	101959	101962	101965
13.50	101968	101971	101974	101977	101980	101983	101986	101989	101992	101995
14.00	101998	102001	102004	102007	102010	102013	102016	102019	102022	102025
14.10	102028	102031	102034	102037	102040	102043	102046	102049	102052	102055
14.20	102058	102061	102064	102067	102070	102073	102076	102079	102082	102085
14.30	102088	102091	102094	102097	102100	102103	102106	102109	102112	102115
14.40	102118	102121	102124	102127	102130	102133	102136	102139	102142	102145
14.50	102148	102151	102154	102157	102160	102163	102166	102169	102172	102175
15.00	102178	102181	102184	102187	102190	102193	102196	102199	102202	102205
15.10	102208	102211	102214	102217	102220	102223	102226	102229	102232	102235
15.20	102238	102241	102244	102247	102250	102253	102256	102259	102262	102265
15.30	102268	102271	102274	102277	102280	102283	102286	102289	102292	102295
15.40	102298	102301	102304	102307	102310	102313	102316	102319	102322	102325
15.50	102328	102331	102334	102337	102340	102343	102346	102349	102352	102355
16.00	102358	102361	102364	102367	102370	102373	102376	102379	102382	102385
16.10	102388	102391	102394	102397	102400	102403	102406	102409	102412	102415
16.20	102418	102421	102424	102427	102430	102433	102436	102439	102442	102445
16.30	102448	102451	102454	102457	102460	102463	102466	102469	102472	102475
16.40	102478	102481	102484	102487	102490	102493	102496	102499	102502	102505
16.50	102508	102511	102514	102517	102520	102523	102526	102529	102532	102535
17.00	102538	102541	102544	102547	102550	102553	102556	102559	102562	102565
17.10	102568	102571	102574	102577	102580	102583	102586	102589	102592	102595
17.20	102598	102601	102604	102607	102610	102613	102616	102619	102622	102625
17.30	102628	102631	102634	102637	102640	102643	102646	102649	102652	102655
17.40	102658	102661	102664	102667	102670	102673	102676	102679	102682	102685
17.50	102688	102691	102694	102697	102700	102703	102706	102709	102712	102715
18.00	102718	102721	102724	102727	102730	102733	102736	102739	102742	102745
18.10	102748	102751	102754	102757	102760	102763	102766	102769	102772	102775
18.20	102778	102781	102784	102787	102790	102793	102796	102799	102802	102805
18.30	102808	102811	102814	102817	102820	102823	102826	102829	102832	102835
18.40	102838	102841	102844	102847	102850	102853	102856	102859	102862	102865
18.50	102868	102871	102874	102877	102880	102883	102886	102889	102892	102895
19.00	102898	102901	102904	102907	102910	102913	102916	102919	102922	102925
19.10	102928	102931	102934	102937	102940	102943	102946	102949	102952	102955
19.20	102958	102961	102964	102967	102970	102973	102976	102979	102982	102985
19.30	102988	102991	102994	102997	103000	103003	103006	103009	103012	103015
19.40	103018	103021	103024	103027	103030	103033	103036	103039	103042	103045
19.50	103048	103051	103054	103057	103060	103063	103066	103069	103072	103075
20.00	103078	103081	103084	103087	103090	103093	103096	103099	103102	103105
20.10	103108	103111	103114	103117	103120	103123	103126	103129	103132	103135
20.20	103138	103141	103144	103147	103150	103153	103156	103159	103162	103165
20.30	103168	103171	103174	103177	103180	103183	103186	103189	103192	103195
20.40	103198	103201	103204	103207	103210	103213	103216	103219	103222	103225
20.50	103228	103231	103234	103237	103240	103243	103246	103249	103252	103255
21.00	103258	103261	103264	103267	103270	103273	103276	103279	103282	103285
21.10	103288	103291	103294	103297	103300	103303	103306	103309	103312	103315
21.20	103318	103321	103324	103327	103330	103333	103336	103339	103342	103345
21.30	103348	103351	103354	103357	103360	103363	103366	103369	103372	103375
21.40	103378	103381	103384	103387	103390	103393	103396	103399	103402	103405
21.50	103408	103411	103414	103417	103420	103423	103426	103429	103432	103435
22.00	103438	103441	103444	103447	103450	103453	103456	103459	103462	103465
22.10	103468	103471	103474	103477	103480	103483	103486	103489	103492	103495
22.20	103498	103501	103504	103507	103510	103513	103516	103519	103522	103525
22.30	103528	103531	103534	103537	103540	103543	103546	103549	103552	103555
22.40	103558	103561	103564	103567	103570	103573	103576	103579	103582	103585
22.50	103588	103591	103594	103597	103600	103603	103606	103609	103612	103615
23.00	103618	103621	103624	103627	103630	103633	103636	103639	103642	103645
23.10	103648	103651	103654	103657	103660	103663	103666	103669	103672	103675
23.20	103678	103681	103684	103687	103690	103693	103696	103699	103702	103705
23.30	103708	103711	103714	103717	103720	103723	103726	103729	103732	103735
23.40	103738	103741	103744	103747	103750	103753	103756	103759	103762	103765
23.50	103768	103771	103774	103777	103780	103783	103786	103789	103792	103795
24.00	103798	103801	103804	103807	103810	103813	103816	103819	103822	103825
24.10	103828	103831	103834	103837	103840	103843	103846	103849	103852	103855
24.20	103858	103861	103864	103867	103870	103873	103876	103879	103882	103885
24.30	103888	103891	103894	103897	103900	103903	103906	103909	103912	103915
24.40	103918	103921	103924	103927	103930	103933	103936	103939	103942	103945
24.50	103948	103951	103954	103957	103960	103963	103966	103969	103972	103975
25.00	103978	103981	103984	103987	103990	103993	103996	103999	104002	104005
25.10	104008	104011	104014	104017	104020	104023	104026	104029	104032	104035
25.20	104038	104041	104044	104047	104050	104053	104056	104059	104062	104065
25.30	104068	104071	104074	104077	104080	104083	104086	104089	104092	104095
25.40	104098	104101	104104	104107	104110	104113	104116	104119	104122	104125
25.50	104128	104131	104134	104137	104140	104143	104146	104149	104152	104155
26.00	104158	104161	104164	104167	104170	104173	104176	104179	104182	104185
26.10	104188	104191	104194	104197	104200	104203	104206	104209	104212	104215
26.20	104218	104221	104224	104227	104230	104233	104236	104239	104242	104245
26.30	104248	104251	104254	104257	104260	104263	104266	104269	104272	104275
26.40	104278	104281	104284	104287	104290	104293	104296	104299	104302	104305
26.50	104308	104311	104314	104317	104320	104323	104326	104329	104332	104335
27.00	104338	104341	104344	104347	104350	104353	104356	104359	104362	104365
27.10	104368	104371	104374	104377	104380	104383	104386	104389	104392	104395
27.20	104398	104401	104404	104407	104410	104413	104416	104419	104422	104425
27.30	104428	104431	104434	104437	104440	104443	104446	104449	104452	104455
27.40	104458	104461	104464	104467	104470	104473	104476	104479	104482	104485
27.50	104488	104491	104494	104497	104500	104503	104506	104509	104512	104515
28.00	104518	104521	104524	104527	104530	104533	104536	104539	104542	104545
28.10	104548	104551	104554	104557	104560	104563	104566	104569		

	01	02	03	04	05	06	07	08	09
01.0	84501	84774	84667	84763	84454	84302	84247	84144	84041
02.0	84534	84744	84652	84752	84417	84312	84211	84113	84010
03.0	84567	84734	84642	84742	84412	84307	84206	84108	84005
04.0	84599	84724	84632	84732	84402	84297	84196	84098	83995
05.0	84632	84714	84622	84722	84392	84287	84186	84088	83985
06.0	84664	84704	84612	84712	84382	84277	84176	84078	83975
07.0	84697	84694	84602	84702	84372	84267	84166	84068	83965
08.0	84729	84684	84592	84692	84362	84257	84156	84058	83955
09.0	84762	84674	84582	84682	84352	84247	84146	84048	83945
10.0	84794	84664	84572	84662	84342	84237	84136	84038	83935
11.0	84827	84654	84562	84652	84332	84227	84126	84028	83925
12.0	84859	84644	84552	84642	84322	84217	84116	84018	83915
13.0	84892	84634	84542	84632	84312	84207	84106	84008	83905
14.0	84924	84624	84532	84622	84302	84197	84096	83998	83895
15.0	84957	84614	84522	84612	84292	84187	84086	83988	83885
16.0	84989	84604	84512	84602	84282	84177	84076	83978	83875
17.0	85022	84594	84502	84592	84272	84167	84066	83968	83865
18.0	85054	84584	84492	84582	84262	84157	84056	83958	83855
19.0	85087	84574	84482	84572	84252	84147	84046	83948	83845
20.0	85119	84564	84472	84562	84242	84137	84036	83938	83835
21.0	85152	84554	84462	84552	84232	84127	84026	83928	83825
22.0	85184	84544	84452	84542	84222	84117	84016	83918	83815
23.0	85217	84534	84442	84532	84212	84107	84006	83908	83805
24.0	85249	84524	84432	84522	84202	84097	83996	83898	83795
25.0	85282	84514	84422	84512	84192	84087	83986	83888	83785
26.0	85314	84504	84412	84502	84182	84077	83976	83878	83775
27.0	85347	84494	84402	84492	84172	84067	83966	83868	83765
28.0	85379	84484	84392	84482	84162	84057	83956	83858	83755
29.0	85412	84474	84382	84472	84152	84047	83946	83848	83745
30.0	85444	84464	84372	84462	84142	84037	83936	83838	83735
31.0	85477	84454	84362	84452	84132	84027	83926	83828	83725
32.0	85509	84444	84352	84442	84122	84017	83916	83818	83715
33.0	85542	84434	84342	84432	84112	84007	83906	83808	83705
34.0	85574	84424	84332	84422	84102	83997	83896	83798	83695
35.0	85607	84414	84322	84412	84092	83987	83886	83788	83685
36.0	85639	84404	84312	84402	84082	83977	83876	83778	83675
37.0	85672	84394	84302	84392	84072	83967	83866	83768	83665
38.0	85704	84384	84292	84382	84062	83957	83856	83758	83655
39.0	85737	84374	84282	84372	84052	83947	83846	83748	83645
40.0	85769	84364	84272	84362	84042	83937	83836	83738	83635
41.0	85802	84354	84262	84352	84032	83927	83826	83728	83625
42.0	85834	84344	84252	84342	84022	83917	83816	83718	83615
43.0	85867	84334	84242	84332	84012	83907	83806	83708	83605
44.0	85899	84324	84232	84322	84002	83897	83796	83698	83595
45.0	85932	84314	84222	84312	83992	83887	83786	83688	83585
46.0	85964	84304	84212	84302	83982	83877	83776	83678	83575
47.0	85997	84294	84202	84292	83972	83867	83766	83668	83565
48.0	86029	84284	84192	84282	83962	83857	83756	83658	83555
49.0	86062	84274	84182	84272	83952	83847	83746	83648	83545
50.0	86094	84264	84172	84262	83942	83837	83736	83638	83535
51.0	86127	84254	84162	84252	83932	83827	83726	83628	83525
52.0	86159	84244	84152	84242	83922	83817	83716	83618	83515
53.0	86192	84234	84142	84232	83912	83807	83706	83608	83505
54.0	86224	84224	84132	84222	83902	83797	83696	83598	83495
55.0	86257	84214	84122	84212	83892	83787	83686	83588	83485
56.0	86289	84204	84112	84202	83882	83777	83676	83578	83475
57.0	86322	84194	84102	84192	83872	83767	83666	83568	83465
58.0	86354	84184	84092	84182	83862	83757	83656	83558	83455
59.0	86387	84174	84082	84172	83852	83747	83646	83548	83445
60.0	86419	84164	84072	84162	83842	83737	83636	83538	83435
61.0	86452	84154	84062	84152	83832	83727	83626	83528	83425
62.0	86484	84144	84052	84142	83822	83717	83616	83518	83415
63.0	86517	84134	84042	84132	83812	83707	83606	83508	83405
64.0	86549	84124	84032	84122	83802	83697	83596	83498	83395
65.0	86582	84114	84022	84112	83792	83687	83586	83488	83385
66.0	86614	84104	84012	84102	83782	83677	83576	83478	83375
67.0	86647	84094	84002	84092	83772	83667	83566	83468	83365
68.0	86679	84084	83992	84082	83762	83657	83556	83458	83355
69.0	86712	84074	83982	84072	83752	83647	83546	83448	83345
70.0	86744	84064	83972	84062	83742	83637	83536	83438	83335
71.0	86777	84054	83962	84052	83732	83627	83526	83428	83325
72.0	86809	84044	83952	84042	83722	83617	83516	83418	83315
73.0	86842	84034	83942	84032	83712	83607	83506	83408	83305
74.0	86874	84024	83932	84022	83702	83597	83496	83398	83295
75.0	86907	84014	83922	84012	83692	83587	83486	83388	83285
76.0	86939	84004	83912	84002	83682	83577	83476	83378	83275
77.0	86972	83994	83902	83982	83672	83567	83466	83368	83265
78.0	87004	83984	83892	83982	83662	83557	83456	83358	83255
79.0	87037	83974	83882	83972	83652	83547	83446	83348	83245
80.0	87069	83964	83872	83962	83642	83537	83436	83338	83235
81.0	87102	83954	83862	83952	83632	83527	83426	83328	83225
82.0	87134	83944	83852	83942	83622	83517	83416	83318	83215
83.0	87167	83934	83842	83932	83612	83507	83406	83308	83205
84.0	87199	83924	83832	83922	83602	83497	83396	83298	83195
85.0	87232	83914	83822	83912	83592	83487	83386	83288	83185
86.0	87264	83904	83812	83902	83582	83477	83376	83278	83175
87.0	87297	83894	83802	83892	83572	83467	83366	83268	83165
88.0	87329	83884	83792	83882	83562	83457	83356	83258	83155
89.0	87362	83874	83782	83872	83552	83447	83346	83248	83145
90.0	87394	83864	83772	83862	83542	83437	83336	83238	83135
91.0	87427	83854	83762	83852	83532	83427	83326	83228	83125
92.0	87459	83844	83752	83842	83522	83417	83316	83218	83115
93.0	87492	83834	83742	83832	83512	83407	83306	83208	83105
94.0	87524	83824	83732	83822	83502	83397	83296	83198	83095
95.0	87557	83814	83722	83812	83492	83387	83286	83188	83085
96.0	87589	83804	83712	83802	83482	83377	83276	83178	83075
97.0	87622	83794	83702	83792	83472	83367	83266	83168	83065
98.0	87654	83784	83692	83782	83462	83357	83256	83158	83055
99.0	87687	83774	83682	83772	83452	83347	83246	83148	83045
100.0	87719	83764	83672	83762	83442	83337	83236	83138	83035

	04	05	06	07	08	09
120.0	49240	49272	49294	49294	49294	49294
121.0	49117	49160	49182	49182	49182	49182
122.0	48944	48974	48992	48992	48992	48992
123.0	48774	48794	48812	48812	48812	48812
124.0	48607	48624	48642	48642	48642	48642
125.0	48440	48458	48476	48476	48476	48476
126.0	48274	48292	48310	48310	48310	48310
127.0	48110	48128	48146	48146	48146	48146
128.0	47947	47965	47983	47983	47983	47983
129.0	47785	47799	47821	47821	47821	47821
130.0	47624	47642	47660	47660	47660	47660
131.0	47463	47481	47499	47499	47499	47499
132.0	47302	47320	47338	47338	47338	47338
133.0	47141	47159	47177	47177	47177	47177
134.0	46980	46998	47016	47016	47016	47016
135.0	46819	46837	46855	46855	46855	46855
136.0	46658	46676	46694	46694	46694	46694
137.0	46497	46515	46533	46533	46533	46533
138.0	46336	46354	46372	46372	46372	46372
139.0	46175	46193	46211	46211	46211	46211
140.0	46014	46032	46050	46050	46050	46050
141.0	45853	45871	45889	45889	45889	45889
142.0	45692	45710	45728	45728	45728	45728
143.0	45531	45549	45567	45567	45567	45567
144.0	45370	45388	45406	45406	45406	45406
145.0	45209	45227	45245	45245	45245	45245
146.0	45048	45066	45084	45084	45084	45084
147.0	44887	44905	44923	44923	44923	44923
148.0	44726	44744	44762	44762	44762	44762
149.0	44565	44583	44601	44601	44601	44601
150.0	44404	44422	44440	44440	44440	44440
151.0	44243	44261	44279	44279	44279	44279
152.0	44082	44100	44118	44118	44118	44118
153.0	43921	43939	43957	43957	43957	43957
154.0	43760	43778	43796	43796	43796	43796
155.0	43599	43617	43635	43635	43635	43635
156.0	43438	43456	43474	43474	43474	43474
157.0	43277	43295	43313	43313	43313	43313
158.0	43116	43134	43152	43152	43152	43152
159.0	42955	42973	42991	42991	42991	42991
160.0	42794	42812	42830	42830	42830	42830
161.0	42633	42651	42669	42669	42669	42669
162.0	42472	42490	42508	42508	42508	42508
163.0	42311	42329	42347	42347	42347	42347
164.0	42150	42168	42186	42186	42186	42186
165.0	41989	42007	42025	42025	42025	42025
166.0	41828	41846	41864	41864	41864	41864
167.0	41667	41685	41703	41703	41703	41703
168.0	41506	41524	41542	41542	41542	41542
169.0	41345	41363	41381	41381	41381	41381
170.0	41184	41202	41220	41220	41220	41220
171.0	41023	41041	41059	41059	41059	41059
172.0	40862	40880	40898	40898	40898	40898
173.0	40701	40719	40737	40737	40737	40737
174.0	40540	40558	40576	40576	40576	40576
175.0	40379	40397	40415	40415	40415	40415
176.0	40218	40236	40254	40254	40254	40254
177.0	40057	40075	40093	40093	40093	40093
178.0	39896	39914	39932	39932	39932	39932
179.0	39735	39753	39771	39771	39771	39771
180.0	39574	39592	39610	39610	39610	39610
181.0	39413	39431	39449	39449	39449	39449
182.0	39252	39270	39288	39288	39288	39288
183.0	39091	39109	39127	39127	39127	39127
184.0	38930	38948	38966	38966	38966	38966
185.0	38769	38787	38805	38805	38805	38805
186.0	38608	38626	38644	38644	38644	38644
187.0	38447	38465	38483	38483	38483	38483
188.0	38286	38304	38322	38322	38322	38322
189.0	38125	38143	38161	38161	38161	38161
190.0	37964	37982	38000	38000	38000	38000
191.0	37803	37821	37839	37839	37839	37839
192.0	37642	37660	37678	37678	37678	37678
193.0	37481	37499	37517	37517	37517	37517
194.0	37320	37338	37356	37356	37356	37356
195.0	37159	37177	37195	37195	37195	37195
196.0	36998	37016	37034	37034	37034	37034
197.0	36837	36855	36873	36873	36873	36873
198.0	36676	36694	36712	36712	36712	36712
199.0	36515	36533	36551	36551	36551	36551
200.0	36354	36372	36390	36390	36390	36390
201.0	36193	36211	36229	36229	36229	36229
202.0	36032	36050	36068	36068	36068	36068
203.0	35871	35889	35907	35907	35907	35907
204.0	35710	35728	35746	35746	35746	35746
205.0	35549	35567	35585	35585	35585	35585
206.0	35388	35406	35424	35424	35424	35424
207.0	35227	35245	35263	35263	35263	35263
208.0	35066	35084	35102	35102	35102	35102
209.0	34905	34923	34941	34941	34941	34941
210.0	34744	34762	34780	34780	34780	34780
211.0	34583	34601	34619	34619	34619	34619
212.0	34422	34440	34458	34458	34458	34458
213.0	34261	34279	34297	34297	34297	34297
214.0	34100	34118	34136	34136	34136	34136
215.0	33939	33957	33975	33975	33975	33975
216.0	33778	33796	33814	33814	33814	33814
217.0	33617	33635	33653	33653	33653	33653
218.0	33456	33474	33492	33492	33492	33492
219.0	33295	33313	33331	33331	33331	33331
220.0	33134	33152	33170	33170	33170	33170
221.0	32973	32991	33009	33009	33009	33009
222.0	32812	32830	32848	32848	32848	32848
223.0	32651	32669	32687	32687	32687	32687
224.0	32490	32508	32526	32526	32526	32526
225.0	32329	32347	32365	32365	32365	32365
226.0	32168	32186	32204	32204	32204	32204
227.0	32007	32025	32043	32043	32043	32043
228.0	31846	31864	31882	31882	31882	31882
229.0	31685	31703	31721	31721	31721	31721
230.0	31524	31542	31560	31560	31560	31560
231.0	31363	31381	31399	31399	31399	31399
232.0	31202	31220	31238	31238	31238	31238
233.0	31041	31059	31077	31077	31077	31077
234.0	30880	30898	30916	30916	30916	30916
235.0	30719	30737	30755	30755	30755	30755
236.0	30558	30576	30594	30594	30594	30594
237.0	30397	30415	30433	30433	30433	30433
238.0	30236	30254	30272	30272	30272	30272
239.0	30075	30093	30111	30111	30111	30111
240.0	29914	29932	29950	29950	29950	29950
241.0	29753	29771	29789	29789	29789	29789
242.0	29592	29610	29628	29628	29628	29628
243.0	29431	29449	29467	29467	29467	29467
244.0	29270	29288	29306	29306	29306	29306
245.0	29109	29127	29145	29145	29145	29145
246.0	28948	28966	28984	28984	28984	28984
247.0	28787	28805	28823	28823	28823	28823
248.0	28626	28644	28662	28662	28662	28662
249.0	28465	28483	28501	28501	28501	28501
250.0	28304	28322	28340	28340	28340	28340
251.0	28143	28161	28179	28179	28179	28179
252.0	27982	27999	28017	28017	28017	28017
253.0	27821	27839	27857	27857	27857	27857
254.0	27660	27678	27696	27696	27696	27696
255.0	27499	27517	27535	27535	27535	27535
256.0	27338	27356	27374	27374	27374	27374
257.0	27177	27195	27213	27213	27213	27213
258.0	27016	27034	27052	27052	27052	27052
259.0	26855	26873	26891	26891	26891	26891
260.0	26694	26712	26730	26730	26730	26730
261.0	26533	26551	26569	26569	26569	26569
262.0	26372	26390	26408	26408	26408	26408
263.0	26211	26229	26247	26247	26247	26247
264.0	26050	26068	26086	26086	26086	26086
265.0	25889	25907	25925	25925	25925	25925
266.0	25728	25746	25764	25764	25764	25764
267.0	25567	25585	25603	25603	25603	25603
268.0	25406	25424	25442	25442	25442	25442
269.0	25245	25263	25281	25281	25281	25281
270.0	25084	25102	25120	25120	25120	25120
271.0	24923	24941	24959	24959	24959	24959
272.0	24762	24780	24798	24798	24798	24798
273.0	24601	24619	24637	24637	24637	24637
274.0	24440	24458	24476	24476	24476	24476
275.0	24279	24297	24315	24315	24315	24315
276.0	24118	24136	24154	24154	24154	24154
277.0	23957	23975	23993	23993	23993	23993
278.0	23796	23814	23832	23832	23832	23832
279.0	23635	23653	23671	23671	23671	23671
280.0	23474	23492	23510	23510	23510	23510
281.0	23313	23331	23349	23349	23349	23349
282.0	23152	23170	23188	23188	23188	23188
283.0	22991	23009	23027	23027	23027	23027
284.0	22830	22848	22866	22866	22866	22866
285.0	22669	22687	22705	22705	22705	22705
286.0	22508	22526	22544	2254		

TABLE IX - Continued

GEOMETRICAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P 00	01	02	03	04	05	06	07	08	09
220.0	36679	36689	36690	36690	36691	36692	36692	36693	36694
221.0	36694	36697	36698	36698	36699	36700	36701	36702	36703
222.0	36704	36707	36708	36709	36710	36711	36712	36713	36714
223.0	36717	36720	36721	36722	36723	36724	36725	36726	36727
224.0	36730	36733	36734	36735	36736	36737	36738	36739	36740
225.0	36743	36746	36747	36748	36749	36750	36751	36752	36753
226.0	36756	36759	36760	36761	36762	36763	36764	36765	36766
227.0	36769	36772	36773	36774	36775	36776	36777	36778	36779
228.0	36782	36785	36786	36787	36788	36789	36790	36791	36792
229.0	36795	36798	36799	36800	36801	36802	36803	36804	36805
230.0	36808	36811	36812	36813	36814	36815	36816	36817	36818
231.0	36821	36824	36825	36826	36827	36828	36829	36830	36831
232.0	36834	36837	36838	36839	36840	36841	36842	36843	36844
233.0	36847	36850	36851	36852	36853	36854	36855	36856	36857
234.0	36860	36863	36864	36865	36866	36867	36868	36869	36870
235.0	36873	36876	36877	36878	36879	36880	36881	36882	36883
236.0	36886	36889	36890	36891	36892	36893	36894	36895	36896
237.0	36899	36902	36903	36904	36905	36906	36907	36908	36909
238.0	36912	36915	36916	36917	36918	36919	36920	36921	36922
239.0	36925	36928	36929	36930	36931	36932	36933	36934	36935
240.0	36938	36941	36942	36943	36944	36945	36946	36947	36948
241.0	36951	36954	36955	36956	36957	36958	36959	36960	36961
242.0	36964	36967	36968	36969	36970	36971	36972	36973	36974
243.0	36977	36980	36981	36982	36983	36984	36985	36986	36987
244.0	36990	36993	36994	36995	36996	36997	36998	36999	37000
245.0	37003	37006	37007	37008	37009	37010	37011	37012	37013
246.0	37016	37019	37020	37021	37022	37023	37024	37025	37026
247.0	37029	37032	37033	37034	37035	37036	37037	37038	37039
248.0	37042	37045	37046	37047	37048	37049	37050	37051	37052
249.0	37055	37058	37059	37060	37061	37062	37063	37064	37065
250.0	37068	37071	37072	37073	37074	37075	37076	37077	37078
251.0	37081	37084	37085	37086	37087	37088	37089	37090	37091
252.0	37094	37097	37098	37099	37100	37101	37102	37103	37104
253.0	37107	37110	37111	37112	37113	37114	37115	37116	37117
254.0	37120	37123	37124	37125	37126	37127	37128	37129	37130
255.0	37133	37136	37137	37138	37139	37140	37141	37142	37143
256.0	37146	37149	37150	37151	37152	37153	37154	37155	37156
257.0	37159	37162	37163	37164	37165	37166	37167	37168	37169
258.0	37172	37175	37176	37177	37178	37179	37180	37181	37182
259.0	37185	37188	37189	37190	37191	37192	37193	37194	37195
260.0	37198	37201	37202	37203	37204	37205	37206	37207	37208
261.0	37211	37214	37215	37216	37217	37218	37219	37220	37221
262.0	37224	37227	37228	37229	37230	37231	37232	37233	37234
263.0	37237	37240	37241	37242	37243	37244	37245	37246	37247
264.0	37250	37253	37254	37255	37256	37257	37258	37259	37260
265.0	37263	37266	37267	37268	37269	37270	37271	37272	37273
266.0	37276	37279	37280	37281	37282	37283	37284	37285	37286
267.0	37289	37292	37293	37294	37295	37296	37297	37298	37299
268.0	37302	37305	37306	37307	37308	37309	37310	37311	37312
269.0	37315	37318	37319	37320	37321	37322	37323	37324	37325
270.0	37328	37331	37332	37333	37334	37335	37336	37337	37338
271.0	37341	37344	37345	37346	37347	37348	37349	37350	37351
272.0	37354	37357	37358	37359	37360	37361	37362	37363	37364
273.0	37367	37370	37371	37372	37373	37374	37375	37376	37377
274.0	37380	37383	37384	37385	37386	37387	37388	37389	37390
275.0	37393	37396	37397	37398	37399	37400	37401	37402	37403
276.0	37406	37409	37410	37411	37412	37413	37414	37415	37416
277.0	37419	37422	37423	37424	37425	37426	37427	37428	37429
278.0	37432	37435	37436	37437	37438	37439	37440	37441	37442
279.0	37445	37448	37449	37450	37451	37452	37453	37454	37455
280.0	37458	37461	37462	37463	37464	37465	37466	37467	37468
281.0	37471	37474	37475	37476	37477	37478	37479	37480	37481
282.0	37484	37487	37488	37489	37490	37491	37492	37493	37494
283.0	37497	37500	37501	37502	37503	37504	37505	37506	37507
284.0	37510	37513	37514	37515	37516	37517	37518	37519	37520
285.0	37523	37526	37527	37528	37529	37530	37531	37532	37533
286.0	37536	37539	37540	37541	37542	37543	37544	37545	37546
287.0	37549	37552	37553	37554	37555	37556	37557	37558	37559
288.0	37562	37565	37566	37567	37568	37569	37570	37571	37572
289.0	37575	37578	37579	37580	37581	37582	37583	37584	37585
290.0	37588	37591	37592	37593	37594	37595	37596	37597	37598
291.0	37601	37604	37605	37606	37607	37608	37609	37610	37611
292.0	37614	37617	37618	37619	37620	37621	37622	37623	37624
293.0	37627	37630	37631	37632	37633	37634	37635	37636	37637
294.0	37640	37643	37644	37645	37646	37647	37648	37649	37650
295.0	37653	37656	37657	37658	37659	37660	37661	37662	37663
296.0	37666	37669	37670	37671	37672	37673	37674	37675	37676
297.0	37679	37682	37683	37684	37685	37686	37687	37688	37689
298.0	37692	37695	37696	37697	37698	37699	37700	37701	37702
299.0	37705	37708	37709	37710	37711	37712	37713	37714	37715
300.0	37718	37721	37722	37723	37724	37725	37726	37727	37728
301.0	37731	37734	37735	37736	37737	37738	37739	37740	37741
302.0	37744	37747	37748	37749	37750	37751	37752	37753	37754
303.0	37757	37760	37761	37762	37763	37764	37765	37766	37767
304.0	37770	37773	37774	37775	37776	37777	37778	37779	37780
305.0	37783	37786	37787	37788	37789	37790	37791	37792	37793
306.0	37796	37799	37800	37801	37802	37803	37804	37805	37806
307.0	37809	37812	37813	37814	37815	37816	37817	37818	37819
308.0	37822	37825	37826	37827	37828	37829	37830	37831	37832
309.0	37835	37838	37839	37840	37841	37842	37843	37844	37845
310.0	37848	37851	37852	37853	37854	37855	37856	37857	37858
311.0	37861	37864	37865	37866	37867	37868	37869	37870	37871
312.0	37874	37877	37878	37879	37880	37881	37882	37883	37884
313.0	37887	37890	37891	37892	37893	37894	37895	37896	37897
314.0	37899	37902	37903	37904	37905	37906	37907	37908	37909
315.0	37912	37915	37916	37917	37918	37919	37920	37921	37922
316.0	37925	37928	37929	37930	37931	37932	37933	37934	37935
317.0	37938	37941	37942	37943	37944	37945	37946	37947	37948
318.0	37951	37954	37955	37956	37957	37958	37959	37960	37961
319.0	37964	37967	37968	37969	37970	37971	37972	37973	37974
320.0	37977	37980	37981	37982	37983	37984	37985	37986	37987
321.0	37990	37993	37994	37995	37996	37997	37998	37999	38000
322.0	38003	38006	38007	38008	38009	38010	38011	38012	38013
323.0	38016	38019	38020	38021	38022	38023	38024	38025	38026
324.0	38029	38032	38033	38034	38035	38036	38037	38038	38039
325.0	38042	38045	38046	38047	38048	38049	38050	38051	38052
326.0	38055	38058	38059	38060	38061	38062	38063	38064	38065
327.0	38068	38071	38072	38073	38074	38075	38076	38077	38078
328.0	38081	38084	38085	38086	38087	38088	38089	38090	38091
329.0	38094	38097	38098	38099	38100	38101	38102	38103	38104
330.0	38107	38110	38111	38112	38113	38114	38115	38116	38117
331.0	38119	38122	38123	38124	38125	38126	38127	38128	38129
332.0	38132	38135	38136	38137	38138	38139	38140	38141	38142
333.0	38145	38148	38149	38150	38151	38152	38153	38154	38155
334.0	38158	38161	38162	38163	38164	38165	38166	38167	38168
335.0	38171	38174	38175	38176	38177	38178	38179	38180	38181
336.0	38184	38187	38188	38189	38190	38191	38192	38193	38194
337.0	38197	38200	38201	38202	38203	38204	38205	38206	38207
338.0	38210	38213	3						

TABLE IX - Continued

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GEOPOENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	00	01	02	03	04	05	06	07	08	09
320.0	28540	28533	28526	28519	28512	28505	28498	28491	28484	28476
321.0	28571	28564	28557	28550	28543	28536	28529	28522	28515	28508
322.0	28601	28594	28587	28580	28574	28567	28560	28553	28546	28539
323.0	28632	28625	28618	28612	28605	28598	28591	28584	28577	28570
324.0	28663	28656	28649	28643	28636	28629	28622	28615	28608	28601
325.0	28694	28687	28680	28674	28667	28660	28653	28646	28639	28632
326.0	28725	28718	28711	28705	28698	28691	28684	28677	28670	28663
327.0	28756	28749	28742	28736	28729	28722	28715	28708	28701	28694
328.0	28787	28780	28773	28767	28760	28753	28746	28739	28732	28725
329.0	28818	28811	28804	28798	28791	28784	28777	28770	28763	28756
330.0	28849	28842	28835	28829	28822	28815	28808	28801	28794	28787
331.0	28880	28873	28866	28860	28853	28846	28839	28832	28825	28818
332.0	28911	28904	28897	28891	28884	28877	28870	28863	28856	28849
333.0	28942	28935	28928	28922	28915	28908	28901	28894	28887	28880
334.0	28973	28966	28959	28953	28946	28939	28932	28925	28918	28911
335.0	29004	29000	28993	28987	28980	28973	28966	28959	28952	28945
336.0	29035	29028	29021	29015	29008	29001	28994	28987	28980	28973
337.0	29066	29059	29052	29046	29039	29032	29025	29018	29011	29004
338.0	29097	29090	29083	29077	29070	29063	29056	29049	29042	29035
339.0	29128	29121	29114	29108	29101	29094	29087	29080	29073	29066
340.0	29159	29152	29145	29139	29132	29125	29118	29111	29104	29097
341.0	29190	29183	29176	29170	29163	29156	29149	29142	29135	29128
342.0	29221	29214	29207	29201	29194	29187	29180	29173	29166	29159
343.0	29252	29245	29238	29232	29225	29218	29211	29204	29197	29190
344.0	29283	29276	29269	29263	29256	29249	29242	29235	29228	29221
345.0	29314	29307	29300	29294	29287	29280	29273	29266	29259	29252
346.0	29345	29338	29331	29325	29318	29311	29304	29297	29290	29283
347.0	29376	29369	29362	29356	29349	29342	29335	29328	29321	29314
348.0	29407	29400	29393	29387	29380	29373	29366	29359	29352	29345
349.0	29438	29431	29424	29418	29411	29404	29397	29390	29383	29376
350.0	29469	29462	29455	29449	29442	29435	29428	29421	29414	29407
351.0	29500	29493	29486	29480	29473	29466	29459	29452	29445	29438
352.0	29531	29524	29517	29511	29504	29497	29490	29483	29476	29469
353.0	29562	29555	29548	29542	29535	29528	29521	29514	29507	29500
354.0	29593	29586	29579	29573	29566	29559	29552	29545	29538	29531
355.0	29624	29617	29610	29604	29597	29590	29583	29576	29569	29562
356.0	29655	29648	29641	29635	29628	29621	29614	29607	29600	29593
357.0	29686	29679	29672	29666	29659	29652	29645	29638	29631	29624
358.0	29717	29710	29703	29697	29690	29683	29676	29669	29662	29655
359.0	29748	29741	29734	29728	29721	29714	29707	29700	29693	29686
360.0	29779	29772	29765	29759	29752	29745	29738	29731	29724	29717
361.0	29810	29803	29796	29790	29783	29776	29769	29762	29755	29748
362.0	29841	29834	29827	29821	29814	29807	29800	29793	29786	29779
363.0	29872	29865	29858	29852	29845	29838	29831	29824	29817	29810
364.0	29903	29896	29889	29883	29876	29869	29862	29855	29848	29841
365.0	29934	29927	29920	29914	29907	29900	29893	29886	29879	29872
366.0	29965	29958	29951	29945	29938	29931	29924	29917	29910	29903
367.0	29996	29989	29982	29976	29969	29962	29955	29948	29941	29934
368.0	30027	30020	30013	30007	29999	29992	29985	29978	29971	29964
369.0	30058	30051	30044	30038	30031	30024	30017	30010	30003	29996
370.0	30089	30082	30075	30069	30062	30055	30048	30041	30034	30027
371.0	30120	30113	30106	30100	30093	30086	30079	30072	30065	30058
372.0	30151	30144	30137	30131	30124	30117	30110	30103	30096	30089
373.0	30182	30175	30168	30162	30155	30148	30141	30134	30127	30120
374.0	30213	30206	30199	30193	30186	30179	30172	30165	30158	30151
375.0	30244	30237	30230	30224	30217	30210	30203	30196	30189	30182
376.0	30275	30268	30261	30255	30248	30241	30234	30227	30220	30213
377.0	30306	30299	30292	30286	30279	30272	30265	30258	30251	30244
378.0	30337	30330	30323	30317	30310	30303	30296	30289	30282	30275
379.0	30368	30361	30354	30348	30341	30334	30327	30320	30313	30306
380.0	30399	30392	30385	30379	30372	30365	30358	30351	30344	30337
381.0	30430	30423	30416	30410	30403	30396	30389	30382	30375	30368
382.0	30461	30454	30447	30441	30434	30427	30420	30413	30406	30399
383.0	30492	30485	30478	30472	30465	30458	30451	30444	30437	30430
384.0	30523	30516	30509	30503	30496	30489	30482	30475	30468	30461
385.0	30554	30547	30540	30534	30527	30520	30513	30506	30499	30492
386.0	30585	30578	30571	30565	30558	30551	30544	30537	30530	30523
387.0	30616	30609	30602	30596	30589	30582	30575	30568	30561	30554
388.0	30647	30640	30633	30627	30620	30613	30606	30599	30592	30585
389.0	30678	30671	30664	30658	30651	30644	30637	30630	30623	30616
390.0	30709	30702	30695	30689	30682	30675	30668	30661	30654	30647
391.0	30740	30733	30726	30720	30713	30706	30699	30692	30685	30678
392.0	30771	30764	30757	30751	30744	30737	30730	30723	30716	30709
393.0	30802	30795	30788	30782	30775	30768	30761	30754	30747	30740
394.0	30833	30826	30819	30813	30806	30799	30792	30785	30778	30771
395.0	30864	30857	30850	30844	30837	30830	30823	30816	30809	30802
396.0	30895	30888	30881	30875	30868	30861	30854	30847	30840	30833
397.0	30926	30919	30912	30906	30899	30892	30885	30878	30871	30864
398.0	30957	30950	30943	30937	30930	30923	30916	30909	30902	30895
399.0	30988	30981	30974	30968	30961	30954	30947	30940	30933	30926
400.0	31019	31012	31005	30999	30992	30985	30978	30971	30964	30957
401.0	31050	31043	31036	31030	31023	31016	31009	31002	30995	30988
402.0	31081	31074	31067	31061	31054	31047	31040	31033	31026	31019
403.0	31112	31105	31098	31092	31085	31078	31071	31064	31057	31050
404.0	31143	31136	31129	31123	31116	31109	31102	31095	31088	31081
405.0	31174	31167	31160	31154	31147	31140	31133	31126	31119	31112
406.0	31205	31198	31191	31185	31178	31171	31164	31157	31150	31143
407.0	31236	31229	31222	31216	31209	31202	31195	31188	31181	31174
408.0	31267	31260	31253	31247	31240	31233	31226	31219	31212	31205
409.0	31298	31291	31284	31278	31271	31264	31257	31250	31243	31236
410.0	31329	31322	31315	31309	31302	31295	31288	31281	31274	31267
411.0	31360	31353	31346	31340	31333	31326	31319	31312	31305	31298
412.0	31391	31384	31377	31371	31364	31357	31350	31343	31336	31329
413.0	31422	31415	31408	31402	31395	31388	31381	31374	31367	31360
414.0	31453	31446	31439	31433	31426	31419	31412	31405	31398	31391
415.0	31484	31477	31470	31464	31457	31450	31443	31436	31429	31422
416.0	31515	31508	31501	31495	31488	31481	31474	31467	31460	31453
417.0	31546	31539	31532	31526	31519	31512	31505	31498	31491	31484
418.0	31577	31570	31563	31557	31550	31543	31536	31529	31522	31515
419.0	31608	31601	31594	31588	31581	31574	31567	31560	31553	31546

TABLE IX - Continued

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P. 100	00	01	02	03	04	05	06	07	08	09
420.0	22438	22432	22427	22421	22415	22410	22404	22399	22393	22388
421.0	22432	22426	22421	22415	22409	22404	22398	22393	22387	22382
422.0	22426	22420	22415	22409	22404	22398	22393	22387	22382	22376
423.0	22420	22414	22409	22403	22398	22393	22387	22382	22376	22371
424.0	22414	22408	22403	22397	22392	22387	22382	22376	22371	22365
425.0	22408	22402	22397	22391	22386	22381	22376	22371	22365	22360
426.0	22402	22396	22391	22385	22380	22375	22370	22365	22360	22354
427.0	22396	22390	22385	22379	22374	22369	22364	22359	22354	22348
428.0	22390	22384	22379	22373	22368	22363	22358	22353	22348	22342
429.0	22384	22378	22373	22367	22362	22357	22352	22347	22342	22336
430.0	22378	22372	22367	22361	22356	22351	22346	22341	22336	22330
431.0	22372	22366	22361	22355	22350	22345	22340	22335	22330	22324
432.0	22366	22360	22355	22349	22344	22339	22334	22329	22324	22318
433.0	22360	22354	22349	22343	22338	22333	22328	22323	22318	22312
434.0	22354	22348	22343	22337	22332	22327	22322	22317	22312	22306
435.0	22348	22342	22337	22331	22326	22321	22316	22311	22306	22300
436.0	22342	22336	22331	22325	22320	22315	22310	22305	22300	22294
437.0	22336	22330	22325	22319	22314	22309	22304	22299	22294	22288
438.0	22330	22324	22319	22313	22308	22303	22298	22293	22288	22282
439.0	22324	22318	22313	22307	22302	22297	22292	22287	22282	22276
440.0	22318	22312	22307	22301	22296	22291	22286	22281	22276	22270
441.0	22312	22306	22301	22295	22290	22285	22280	22275	22270	22264
442.0	22306	22300	22295	22289	22284	22279	22274	22269	22264	22258
443.0	22300	22294	22289	22283	22278	22273	22268	22263	22258	22252
444.0	22294	22288	22283	22277	22272	22267	22262	22257	22252	22246
445.0	22288	22282	22277	22271	22266	22261	22256	22251	22246	22240
446.0	22282	22276	22271	22265	22260	22255	22250	22245	22240	22234
447.0	22276	22270	22265	22259	22254	22249	22244	22239	22234	22228
448.0	22270	22264	22259	22253	22248	22243	22238	22233	22228	22222
449.0	22264	22258	22253	22247	22242	22237	22232	22227	22222	22216
450.0	22258	22252	22247	22241	22236	22231	22226	22221	22216	22210
451.0	22252	22246	22241	22235	22230	22225	22220	22215	22210	22204
452.0	22246	22240	22235	22229	22224	22219	22214	22209	22204	22198
453.0	22240	22234	22229	22223	22218	22213	22208	22203	22198	22192
454.0	22234	22228	22223	22217	22212	22207	22202	22197	22192	22186
455.0	22228	22222	22217	22211	22206	22201	22196	22191	22186	22180
456.0	22222	22216	22211	22205	22200	22195	22190	22185	22180	22174
457.0	22216	22210	22205	22199	22194	22189	22184	22179	22174	22168
458.0	22210	22204	22199	22193	22188	22183	22178	22173	22168	22162
459.0	22204	22198	22193	22187	22182	22177	22172	22167	22162	22156
460.0	22198	22192	22187	22181	22176	22171	22166	22161	22156	22150
461.0	22192	22186	22181	22175	22170	22165	22160	22155	22150	22144
462.0	22186	22180	22175	22169	22164	22159	22154	22149	22144	22138
463.0	22180	22174	22169	22163	22158	22153	22148	22143	22138	22132
464.0	22174	22168	22163	22157	22152	22147	22142	22137	22132	22126
465.0	22168	22162	22157	22151	22146	22141	22136	22131	22126	22120
466.0	22162	22156	22151	22145	22140	22135	22130	22125	22120	22114
467.0	22156	22150	22145	22139	22134	22129	22124	22119	22114	22108
468.0	22150	22144	22139	22133	22128	22123	22118	22113	22108	22102
469.0	22144	22138	22133	22127	22122	22117	22112	22107	22102	22096
470.0	22138	22132	22127	22121	22116	22111	22106	22101	22096	22090
471.0	22132	22126	22121	22115	22110	22105	22100	22095	22090	22084
472.0	22126	22120	22115	22109	22104	22099	22094	22089	22084	22078
473.0	22120	22114	22109	22103	22098	22093	22088	22083	22078	22072
474.0	22114	22108	22103	22097	22092	22087	22082	22077	22072	22066
475.0	22108	22102	22097	22091	22086	22081	22076	22071	22066	22060
476.0	22102	22096	22091	22085	22080	22075	22070	22065	22060	22054
477.0	22096	22090	22085	22079	22074	22069	22064	22059	22054	22048
478.0	22090	22084	22079	22073	22068	22063	22058	22053	22048	22042
479.0	22084	22078	22073	22067	22062	22057	22052	22047	22042	22036
480.0	22078	22072	22067	22061	22056	22051	22046	22041	22036	22030
481.0	22072	22066	22061	22055	22050	22045	22040	22035	22030	22024
482.0	22066	22060	22055	22049	22044	22039	22034	22029	22024	22018
483.0	22060	22054	22049	22043	22038	22033	22028	22023	22018	22012
484.0	22054	22048	22043	22037	22032	22027	22022	22017	22012	22006
485.0	22048	22042	22037	22031	22026	22021	22016	22011	22006	21999
486.0	22042	22036	22031	22025	22020	22015	22010	22005	21999	21993
487.0	22036	22030	22025	22019	22014	22009	22004	21999	21993	21987
488.0	22030	22024	22019	22013	22008	22003	21998	21993	21987	21981
489.0	22024	22018	22013	22007	22002	21997	21992	21987	21981	21975
490.0	22018	22012	22007	22001	21996	21991	21986	21981	21975	21969
491.0	22012	22006	22001	21995	21990	21985	21980	21975	21969	21963
492.0	22006	22000	21995	21989	21984	21979	21974	21969	21963	21957
493.0	22000	21994	21989	21983	21978	21973	21968	21963	21957	21951
494.0	21994	21988	21983	21977	21972	21967	21962	21957	21951	21945
495.0	21988	21982	21977	21971	21966	21961	21956	21951	21945	21939
496.0	21982	21976	21971	21965	21960	21955	21950	21945	21939	21933
497.0	21976	21970	21965	21959	21954	21949	21944	21939	21933	21927
498.0	21970	21964	21959	21953	21948	21943	21938	21933	21927	21921
499.0	21964	21958	21953	21947	21942	21937	21932	21927	21921	21915
500.0	21958	21952	21947	21941	21936	21931	21926	21921	21915	21909
501.0	21952	21946	21941	21935	21930	21925	21920	21915	21909	21903
502.0	21946	21940	21935	21929	21924	21919	21914	21909	21903	21897
503.0	21940	21934	21929	21923	21918	21913	21908	21903	21897	21891
504.0	21934	21928	21923	21917	21912	21907	21902	21897	21891	21885
505.0	21928	21922	21917	21911	21906	21901	21896	21891	21885	21879
506.0	21922	21916	21911	21905	21900	21895	21890	21885	21879	21873
507.0	21916	21910	21905	21899	21894	21889	21884	21879	21873	21867
508.0	21910	21904	21899	21893	21888	21883	21878	21873	21867	21861
509.0	21904	21898	21893	21887	21882	21877	21872	21867	21861	21855
510.0	21898	21892	21887	21881	21876	21871	21866	21861	21855	21849
511.0	21892	21886	21881	21875	21870	21865	21860	21855	21849	21843
512.0	21886	21880	21875	21869	21864	21859	21854	21849	21843	21837
513.0	21880	21874	21869	21863	21858	21853	21848	21843	21837	21831
514.0	21874	21868	21863	21857	21852	21847	21842	21837	21831	21825
515.0	21868	21862	21857	21851	21846	21841	21836	21831	21825	21819
516.0	21862	21856	21851	21845	21840	21835	21830	21825	21819	21813
517.0	21856	21850	21845	21839	21834	21829	21824	21819	21813	21807
518.0	21850	21844	21839	21833	21828	21823	21818	21813	21807	21801
519.0	21844	21838	21833	21827	21822	21817	21812	21807	21801	21795
520.0	21838	21832	21827	21821	21816	21811	21806	21801	21795	21789
521.0	21832	21826	21821	21815	21810	21805	21800	21795	21789	21783
522.0	21826	21820	21815	21809	21804	21799	21794	21789	21783	21777
523.0	21820	21814	21809	21803	21798	21793	21788	21783	21777	21771
524.0	21814	21808	21803	21797	21792	21787	21782	21777	21771	21765
525.0	21808	21802	21797	21791	21786	21781	21776	21771	21765	21759
526.0	21802	21796	21791	21785	21780	21775	21770	21765	21759	21753
527.0	21796	21790	21785	21779	21774	21769	21764	21759	21753</	

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

[illegible]

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P. No.	00	01	02	03	04	05	06	07	08	09
620.0	12977	12973	12969	12965	12961	12957	12953	12949	12945	12941
621.0	12936	12932	12928	12924	12920	12916	12912	12908	12904	12900
622.0	12907	12903	12899	12895	12891	12887	12883	12879	12875	12871
623.0	12861	12857	12853	12849	12845	12841	12837	12833	12829	12825
624.0	12816	12812	12808	12804	12800	12796	12792	12788	12784	12780
625.0	12774	12770	12766	12762	12758	12754	12750	12746	12742	12738
626.0	12731	12727	12723	12719	12715	12711	12707	12703	12699	12695
627.0	12693	12689	12685	12681	12677	12673	12669	12665	12661	12657
628.0	12653	12649	12645	12641	12637	12633	12629	12625	12621	12617
629.0	12603	12599	12595	12591	12587	12583	12579	12575	12571	12567
630.0	12553	12549	12545	12541	12537	12533	12529	12525	12521	12517
631.0	12503	12499	12495	12491	12487	12483	12479	12475	12471	12467
632.0	12453	12449	12445	12441	12437	12433	12429	12425	12421	12417
633.0	12403	12399	12395	12391	12387	12383	12379	12375	12371	12367
634.0	12353	12349	12345	12341	12337	12333	12329	12325	12321	12317
635.0	12303	12299	12295	12291	12287	12283	12279	12275	12271	12267
636.0	12253	12249	12245	12241	12237	12233	12229	12225	12221	12217
637.0	12203	12199	12195	12191	12187	12183	12179	12175	12171	12167
638.0	12153	12149	12145	12141	12137	12133	12129	12125	12121	12117
639.0	12103	12099	12095	12091	12087	12083	12079	12075	12071	12067
640.0	12053	12049	12045	12041	12037	12033	12029	12025	12021	12017
641.0	12003	11999	11995	11991	11987	11983	11979	11975	11971	11967
642.0	11953	11949	11945	11941	11937	11933	11929	11925	11921	11917
643.0	11903	11899	11895	11891	11887	11883	11879	11875	11871	11867
644.0	11853	11849	11845	11841	11837	11833	11829	11825	11821	11817
645.0	11803	11799	11795	11791	11787	11783	11779	11775	11771	11767
646.0	11753	11749	11745	11741	11737	11733	11729	11725	11721	11717
647.0	11703	11699	11695	11691	11687	11683	11679	11675	11671	11667
648.0	11653	11649	11645	11641	11637	11633	11629	11625	11621	11617
649.0	11603	11599	11595	11591	11587	11583	11579	11575	11571	11567
650.0	11553	11549	11545	11541	11537	11533	11529	11525	11521	11517
651.0	11503	11499	11495	11491	11487	11483	11479	11475	11471	11467
652.0	11453	11449	11445	11441	11437	11433	11429	11425	11421	11417
653.0	11403	11399	11395	11391	11387	11383	11379	11375	11371	11367
654.0	11353	11349	11345	11341	11337	11333	11329	11325	11321	11317
655.0	11303	11299	11295	11291	11287	11283	11279	11275	11271	11267
656.0	11253	11249	11245	11241	11237	11233	11229	11225	11221	11217
657.0	11203	11199	11195	11191	11187	11183	11179	11175	11171	11167
658.0	11153	11149	11145	11141	11137	11133	11129	11125	11121	11117
659.0	11103	11099	11095	11091	11087	11083	11079	11075	11071	11067
660.0	11053	11049	11045	11041	11037	11033	11029	11025	11021	11017
661.0	11003	10999	10995	10991	10987	10983	10979	10975	10971	10967
662.0	10953	10949	10945	10941	10937	10933	10929	10925	10921	10917
663.0	10903	10899	10895	10891	10887	10883	10879	10875	10871	10867
664.0	10853	10849	10845	10841	10837	10833	10829	10825	10821	10817
665.0	10803	10799	10795	10791	10787	10783	10779	10775	10771	10767
666.0	10753	10749	10745	10741	10737	10733	10729	10725	10721	10717
667.0	10703	10699	10695	10691	10687	10683	10679	10675	10671	10667
668.0	10653	10649	10645	10641	10637	10633	10629	10625	10621	10617
669.0	10603	10599	10595	10591	10587	10583	10579	10575	10571	10567
670.0	10553	10549	10545	10541	10537	10533	10529	10525	10521	10517
671.0	10503	10499	10495	10491	10487	10483	10479	10475	10471	10467
672.0	10453	10449	10445	10441	10437	10433	10429	10425	10421	10417
673.0	10403	10399	10395	10391	10387	10383	10379	10375	10371	10367
674.0	10353	10349	10345	10341	10337	10333	10329	10325	10321	10317
675.0	10303	10299	10295	10291	10287	10283	10279	10275	10271	10267
676.0	10253	10249	10245	10241	10237	10233	10229	10225	10221	10217
677.0	10203	10199	10195	10191	10187	10183	10179	10175	10171	10167
678.0	10153	10149	10145	10141	10137	10133	10129	10125	10121	10117
679.0	10103	10099	10095	10091	10087	10083	10079	10075	10071	10067
680.0	10053	10049	10045	10041	10037	10033	10029	10025	10021	10017
681.0	10003	9999	9995	9991	9987	9983	9979	9975	9971	9967
682.0	9953	9949	9945	9941	9937	9933	9929	9925	9921	9917
683.0	9903	9899	9895	9891	9887	9883	9879	9875	9871	9867
684.0	9853	9849	9845	9841	9837	9833	9829	9825	9821	9817
685.0	9803	9799	9795	9791	9787	9783	9779	9775	9771	9767
686.0	9753	9749	9745	9741	9737	9733	9729	9725	9721	9717
687.0	9703	9699	9695	9691	9687	9683	9679	9675	9671	9667
688.0	9653	9649	9645	9641	9637	9633	9629	9625	9621	9617
689.0	9603	9599	9595	9591	9587	9583	9579	9575	9571	9567
690.0	9553	9549	9545	9541	9537	9533	9529	9525	9521	9517
691.0	9503	9499	9495	9491	9487	9483	9479	9475	9471	9467
692.0	9453	9449	9445	9441	9437	9433	9429	9425	9421	9417
693.0	9403	9399	9395	9391	9387	9383	9379	9375	9371	9367
694.0	9353	9349	9345	9341	9337	9333	9329	9325	9321	9317
695.0	9303	9299	9295	9291	9287	9283	9279	9275	9271	9267
696.0	9253	9249	9245	9241	9237	9233	9229	9225	9221	9217
697.0	9203	9199	9195	9191	9187	9183	9179	9175	9171	9167
698.0	9153	9149	9145	9141	9137	9133	9129	9125	9121	9117
699.0	9103	9099	9095	9091	9087	9083	9079	9075	9071	9067
700.0	9053	9049	9045	9041	9037	9033	9029	9025	9021	9017
701.0	9003	8999	8995	8991	8987	8983	8979	8975	8971	8967
702.0	8953	8949	8945	8941	8937	8933	8929	8925	8921	8917
703.0	8903	8899	8895	8891	8887	8883	8879	8875	8871	8867
704.0	8853	8849	8845	8841	8837	8833	8829	8825	8821	8817
705.0	8803	8799	8795	8791	8787	8783	8779	8775	8771	8767
706.0	8753	8749	8745	8741	8737	8733	8729	8725	8721	8717
707.0	8703	8699	8695	8691	8687	8683	8679	8675	8671	8667
708.0	8653	8649	8645	8641	8637	8633	8629	8625	8621	8617
709.0	8603	8599	8595	8591	8587	8583	8579	8575	8571	8567
710.0	8553	8549	8545	8541	8537	8533	8529	8525	8521	8517
711.0	8503	8499	8495	8491	8487	8483	8479	8475	8471	8467
712.0	8453	8449	8445	8441	8437	8433	8429	8425	8421	8417
713.0	8403	8399	8395	8391	8387	8383	8379	8375	8371	8367
714.0	8353	8349	8345	8341	8337	8333	8329	8325	8321	8317
715.0	8303	8299	8295	8291	8287	8283	8279	8275	8271	8267
716.0	8253	8249	8245	8241	8237	8233	8229	8225	8221	8217
717.0	8203	8199	8195	8191	8187	8183	8179	8175	8171	8167
718.0	8153	8149	8145	8141	8137	8133	8129	8125	8121	8117
719.0	8103	8099	8095	8091	8087	8083	8079	8075	8071	8067
720.0	8053	8049	8045	8041	8037	8033	8029	8025	8021	8017
721.0	8003	7999	7995	7991	7987	7983	7979	7975	7971	7967
722.0	7953	7949	7945	7941	7937	7933	7929	7925	7921	7917
723.0	7903	7899	7895	7891	7887	7883	7879	7875	7871	7867
724.0	7853	7849	7845	7841	7837	7833	7829	7825	7821	7817
725.0	7803	7799	7795	7791	7787	7783	7779	7775	7771	7767
726.0	7753	7749	7745	7741	7737	7733	7729	7725	7721	7717
727.0	7703	7699	7695	7691	7687	7683	7679	7675	7671	7667
728.0	7653	7649	7645	7641	7637	7633	7629	7625	7621	7617
729.0	7603	7599	7595	7591	7587	7583	7579	7575	7571	7567
730.0	7553	7549	7545	7541	7537	7533	7529	7525	7521	7517
731.0	7503	7499	7495	7491	7487	7483	7479	7475	7471	7467
732.0	7453	7449	7445	7						

GEOPOTENTIAL ALTITUDE IN FEET AS A FUNCTION OF PRESSURE IN MILLIBARS

Pressure	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
720.0	9134	9130	9127	9123	9120	9116	9112	9109	9105	9102
721.0	9118	9114	9111	9107	9104	9100	9096	9093	9089	9086
722.0	9102	9098	9095	9091	9088	9084	9080	9077	9073	9070
723.0	9086	9082	9079	9075	9072	9068	9064	9061	9057	9054
724.0	9070	9066	9063	9059	9056	9052	9048	9045	9041	9038
725.0	9054	9050	9047	9043	9040	9036	9032	9029	9025	9022
726.0	9038	9034	9031	9027	9024	9020	9016	9013	9009	9006
727.0	9022	9018	9015	9011	9008	9004	9000	8997	8993	8990
728.0	8996	8992	8989	8985	8982	8978	8974	8971	8967	8964
729.0	8980	8976	8973	8969	8966	8962	8958	8955	8951	8948
730.0	8964	8960	8957	8953	8950	8946	8942	8939	8935	8932
731.0	8948	8944	8941	8937	8934	8930	8926	8923	8919	8916
732.0	8932	8928	8925	8921	8918	8914	8910	8907	8903	8900
733.0	8916	8912	8909	8905	8902	8898	8894	8891	8887	8884
734.0	8898	8894	8891	8887	8884	8880	8876	8873	8869	8866
735.0	8882	8878	8875	8871	8868	8864	8860	8857	8853	8850
736.0	8866	8862	8859	8855	8852	8848	8844	8841	8837	8834
737.0	8850	8846	8843	8839	8836	8832	8828	8825	8821	8818
738.0	8834	8830	8827	8823	8820	8816	8812	8809	8805	8802
739.0	8818	8814	8811	8807	8804	8800	8796	8793	8789	8786
740.0	8802	8798	8795	8791	8788	8784	8780	8777	8773	8770
741.0	8786	8782	8779	8775	8772	8768	8764	8761	8757	8754
742.0	8770	8766	8763	8759	8756	8752	8748	8745	8741	8738
743.0	8754	8750	8747	8743	8740	8736	8732	8729	8725	8722
744.0	8738	8734	8731	8727	8724	8720	8716	8713	8709	8706
745.0	8722	8718	8715	8711	8708	8704	8700	8697	8693	8690
746.0	8706	8702	8699	8695	8692	8688	8684	8681	8677	8674
747.0	8690	8686	8683	8679	8676	8672	8668	8665	8661	8658
748.0	8674	8670	8667	8663	8660	8656	8652	8649	8645	8642
749.0	8658	8654	8651	8647	8644	8640	8636	8633	8629	8626
750.0	8642	8638	8635	8631	8628	8624	8620	8617	8613	8610
751.0	8626	8622	8619	8615	8612	8608	8604	8601	8597	8594
752.0	8610	8606	8603	8599	8596	8592	8588	8585	8581	8578
753.0	8594	8590	8587	8583	8580	8576	8572	8569	8565	8562
754.0	8578	8574	8571	8567	8564	8560	8556	8553	8549	8546
755.0	8562	8558	8555	8551	8548	8544	8540	8537	8533	8530
756.0	8546	8542	8539	8535	8532	8528	8524	8521	8517	8514
757.0	8530	8526	8523	8519	8516	8512	8508	8505	8501	8498
758.0	8514	8510	8507	8503	8500	8496	8492	8489	8485	8482
759.0	8498	8494	8491	8487	8484	8480	8476	8473	8469	8466
760.0	8482	8478	8475	8471	8468	8464	8460	8457	8453	8450
761.0	8466	8462	8459	8455	8452	8448	8444	8441	8437	8434
762.0	8450	8446	8443	8439	8436	8432	8428	8425	8421	8418
763.0	8434	8430	8427	8423	8420	8416	8412	8409	8405	8402
764.0	8418	8414	8411	8407	8404	8400	8396	8393	8389	8386
765.0	8402	8398	8395	8391	8388	8384	8380	8377	8373	8370
766.0	8386	8382	8379	8375	8372	8368	8364	8361	8357	8354
767.0	8370	8366	8363	8359	8356	8352	8348	8345	8341	8338
768.0	8354	8350	8347	8343	8340	8336	8332	8329	8325	8322
769.0	8338	8334	8331	8327	8324	8320	8316	8313	8309	8306
770.0	8322	8318	8315	8311	8308	8304	8300	8297	8293	8290
771.0	8306	8302	8299	8295	8292	8288	8284	8281	8277	8274
772.0	8290	8286	8283	8279	8276	8272	8268	8265	8261	8258
773.0	8274	8270	8267	8263	8260	8256	8252	8249	8245	8242
774.0	8258	8254	8251	8247	8244	8240	8236	8233	8229	8226
775.0	8242	8238	8235	8231	8228	8224	8220	8217	8213	8210
776.0	8226	8222	8219	8215	8212	8208	8204	8201	8197	8194
777.0	8210	8206	8203	8199	8196	8192	8188	8185	8181	8178
778.0	8194	8190	8187	8183	8180	8176	8172	8169	8165	8162
779.0	8178	8174	8171	8167	8164	8160	8156	8153	8149	8146
780.0	8162	8158	8155	8151	8148	8144	8140	8137	8133	8130
781.0	8146	8142	8139	8135	8132	8128	8124	8121	8117	8114
782.0	8130	8126	8123	8119	8116	8112	8108	8105	8101	8098
783.0	8114	8110	8107	8103	8100	8096	8092	8089	8085	8082
784.0	8098	8094	8091	8087	8084	8080	8076	8073	8069	8066
785.0	8082	8078	8075	8071	8068	8064	8060	8057	8053	8050
786.0	8066	8062	8059	8055	8052	8048	8044	8041	8037	8034
787.0	8050	8046	8043	8039	8036	8032	8028	8025	8021	8018
788.0	8034	8030	8027	8023	8020	8016	8012	8009	8005	8002
789.0	8018	8014	8011	8007	8004	8000	7996	7993	7989	7986
790.0	8002	7998	7995	7991	7988	7984	7980	7977	7973	7970
791.0	7986	7982	7979	7975	7972	7968	7964	7961	7957	7954
792.0	7970	7966	7963	7959	7956	7952	7948	7945	7941	7938
793.0	7954	7950	7947	7943	7940	7936	7932	7929	7925	7922
794.0	7938	7934	7931	7927	7924	7920	7916	7913	7909	7906
795.0	7922	7918	7915	7911	7908	7904	7900	8897	8893	8890
796.0	7906	7902	7899	7895	7892	7888	7884	7881	7877	7874
797.0	7890	7886	7883	7879	7876	7872	7868	7865	7861	7858
798.0	7874	7870	7867	7863	7860	7856	7852	7849	7845	7842
799.0	7858	7854	7851	7847	7844	7840	7836	7833	7829	7826
800.0	7842	7838	7835	7831	7828	7824	7820	7817	7813	7810
801.0	7826	7822	7819	7815	7812	7808	7804	7801	7797	7794
802.0	7810	7806	7803	7799	7796	7792	7788	7785	7781	7778
803.0	7794	7790	7787	7783	7780	7776	7772	7769	7765	7762
804.0	7778	7774	7771	7767	7764	7760	7756	7753	7749	7746
805.0	7762	7758	7755	7751	7748	7744	7740	7737	7733	7730
806.0	7746	7742	7739	7735	7732	7728	7724	7721	7717	7714
807.0	7730	7726	7723	7719	7716	7712	7708	7705	7701	7698
808.0	7714	7710	7707	7703	7700	7696	7692	7689	7685	7682
809.0	7698	7694	7691	7687	7684	7680	7676	7673	7669	7666
810.0	7682	7678	7675	7671	7668	7664	7660	7657	7653	7650
811.0	7666	7662	7659	7655	7652	7648	7644	7641	7637	7634
812.0	7650	7646	7643	7639	7636	7632	7628	7625	7621	7618
813.0	7634	7630	7627	7623	7620	7616	7612	7609	7605	7602
814.0	7618	7614	7611	7607	7604	7600	7596	7593	7589	7586
815.0	7602	7598	7595	7591	7588	7584	7580	7577	7573	7570
816.0	7586	7582	7579	7575	7572	7568	7564	7561	7557	7554
817.0	7570	7566	7563	7559	7556	7552	7548	7545	7541	7538
818.0	7554	7550	7547	7543	7540	7536	7532	7529	7525	7522
819.0	7538	7534	7531	7527	7524	7520	7516	7513	7509	7506

TABLE IX - Continued

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
820.0	5740	5736	5733	5730	5727	5723	5720	5717	5714	5710
821.0	5707	5704	5701	5697	5694	5691	5688	5684	5681	5678
822.0	5675	5672	5668	5665	5662	5659	5655	5652	5649	5646
823.0	5642	5639	5636	5633	5629	5626	5623	5620	5617	5613
824.0	5610	5607	5604	5600	5597	5594	5591	5588	5584	5581
825.0	5578	5575	5571	5568	5565	5562	5559	5555	5552	5549
826.0	5546	5542	5539	5536	5533	5529	5526	5523	5520	5517
827.0	5513	5510	5507	5504	5501	5497	5494	5491	5488	5484
828.0	5481	5478	5475	5472	5468	5465	5462	5459	5455	5452
829.0	5449	5446	5443	5439	5436	5433	5430	5427	5423	5420
830.0	5417	5414	5411	5407	5404	5401	5398	5394	5391	5388
831.0	5385	5382	5378	5375	5372	5369	5366	5362	5359	5356
832.0	5353	5350	5346	5343	5340	5337	5334	5330	5327	5324
833.0	5321	5318	5314	5311	5308	5305	5302	5298	5295	5292
834.0	5289	5286	5282	5279	5276	5273	5270	5266	5263	5260
835.0	5257	5254	5250	5247	5244	5241	5238	5234	5231	5228
836.0	5225	5222	5219	5215	5212	5209	5206	5203	5199	5196
837.0	5193	5190	5187	5183	5180	5177	5174	5171	5168	5164
838.0	5161	5158	5155	5152	5148	5145	5142	5139	5136	5133
839.0	5129	5126	5123	5120	5117	5113	5110	5107	5104	5101
840.0	5099	5096	5091	5088	5085	5082	5078	5075	5072	5069
841.0	5066	5063	5059	5056	5053	5050	5047	5044	5040	5037
842.0	5034	5031	5028	5024	5021	5018	5015	5012	5009	5005
843.0	5002	4999	4996	4993	4989	4986	4983	4980	4977	4974
844.0	4971	4967	4964	4961	4958	4955	4952	4948	4945	4942
845.0	4939	4936	4933	4929	4926	4923	4920	4917	4914	4910
846.0	4907	4904	4901	4898	4895	4892	4888	4885	4882	4879
847.0	4876	4873	4869	4866	4863	4860	4857	4854	4850	4847
848.0	4844	4841	4838	4835	4832	4828	4825	4822	4819	4816
849.0	4813	4810	4806	4803	4800	4797	4794	4791	4787	4784
850.0	4781	4778	4775	4772	4769	4765	4762	4759	4756	4753
851.0	4750	4747	4743	4740	4737	4734	4731	4728	4725	4721
852.0	4718	4715	4712	4709	4706	4703	4699	4696	4693	4690
853.0	4687	4684	4681	4677	4674	4671	4668	4665	4662	4659
854.0	4655	4652	4649	4646	4643	4640	4637	4634	4630	4627
855.0	4624	4621	4618	4615	4612	4608	4605	4602	4599	4596
856.0	4593	4590	4587	4583	4580	4577	4574	4571	4568	4565
857.0	4561	4558	4555	4552	4549	4546	4543	4540	4538	4533
858.0	4530	4527	4524	4521	4518	4515	4511	4508	4505	4502
859.0	4499	4496	4493	4490	4487	4483	4480	4477	4474	4471
860.0	4468	4465	4462	4458	4455	4452	4449	4446	4443	4440
861.0	4437	4433	4430	4427	4425	4421	4418	4415	4412	4409
862.0	4405	4402	4399	4396	4393	4390	4387	4384	4381	4378
863.0	4374	4371	4368	4365	4362	4359	4356	4353	4349	4346
864.0	4343	4340	4337	4334	4331	4328	4325	4322	4318	4315
865.0	4312	4309	4306	4303	4300	4297	4294	4290	4287	4284
866.0	4281	4278	4275	4272	4269	4266	4263	4259	4256	4253
867.0	4250	4247	4244	4241	4238	4235	4232	4229	4225	4222
868.0	4219	4216	4213	4210	4207	4204	4201	4198	4194	4191
869.0	4188	4185	4182	4179	4176	4173	4170	4167	4164	4160
870.0	4157	4154	4151	4148	4145	4142	4139	4136	4133	4130
871.0	4126	4123	4120	4117	4114	4111	4108	4105	4102	4099
872.0	4096	4093	4090	4087	4084	4081	4077	4074	4071	4068
873.0	4065	4062	4059	4056	4053	4050	4046	4043	4040	4037
874.0	4034	4031	4028	4025	4022	4019	4016	4012	4009	4006
875.0	4003	4000	3997	3994	3991	3988	3985	3982	3979	3976
876.0	3972	3969	3966	3963	3960	3957	3954	3951	3948	3945
877.0	3942	3939	3936	3933	3930	3926	3923	3920	3917	3914
878.0	3911	3908	3905	3902	3899	3896	3893	3890	3887	3884
879.0	3880	3877	3874	3871	3868	3865	3862	3859	3856	3853
880.0	3850	3847	3844	3841	3838	3835	3832	3828	3825	3822
881.0	3819	3816	3813	3810	3807	3804	3801	3798	3795	3792
882.0	3789	3786	3783	3780	3777	3774	3770	3767	3764	3761
883.0	3758	3755	3752	3749	3746	3743	3740	3737	3734	3731
884.0	3728	3725	3722	3719	3716	3712	3709	3706	3703	3700
885.0	3697	3694	3691	3688	3685	3682	3679	3676	3673	3670
886.0	3667	3664	3661	3658	3655	3651	3648	3645	3642	3639
887.0	3636	3633	3630	3627	3624	3621	3618	3615	3612	3609
888.0	3606	3603	3600	3597	3594	3591	3588	3585	3581	3578
889.0	3575	3572	3569	3566	3563	3560	3557	3554	3551	3548
890.0	3545	3542	3539	3536	3533	3530	3527	3524	3521	3518
891.0	3515	3512	3509	3506	3503	3500	3497	3494	3491	3488
892.0	3484	3481	3478	3475	3472	3469	3466	3463	3460	3457
893.0	3454	3451	3448	3445	3442	3439	3436	3433	3430	3427
894.0	3424	3421	3418	3415	3412	3409	3406	3403	3400	3397
895.0	3394	3391	3388	3385	3382	3379	3376	3373	3370	3367
896.0	3364	3361	3358	3355	3352	3349	3346	3343	3340	3337
897.0	3333	3330	3327	3324	3321	3318	3315	3312	3309	3306
898.0	3303	3300	3297	3294	3291	3288	3285	3282	3279	3276
899.0	3273	3270	3267	3264	3261	3258	3255	3252	3249	3246
900.0	3243	3240	3237	3234	3231	3228	3225	3222	3219	3216
901.0	3213	3210	3207	3204	3201	3198	3195	3192	3189	3186
902.0	3183	3180	3177	3174	3171	3168	3165	3162	3159	3156
903.0	3153	3150	3147	3144	3141	3138	3135	3132	3129	3126
904.0	3123	3120	3117	3114	3111	3108	3105	3102	3099	3096
905.0	3093	3090	3087	3084	3081	3078	3075	3072	3069	3066
906.0	3063	3060	3057	3054	3051	3048	3045	3042	3039	3036
907.0	3033	3030	3027	3024	3021	3018	3015	3012	3009	3006
908.0	3003	3000	2998	2995	2992	2989	2986	2983	2980	2977
909.0	2974	2971	2968	2965	2962	2959	2956	2953	2950	2947
910.0	2944	2941	2938	2935	2932	2929	2926	2923	2920	2917
911.0	2911	2908	2905	2902	2899	2896	2893	2890	2887	2884
912.0	2881	2878	2875	2872	2869	2866	2863	2860	2857	2854
913.0	2855	2852	2849	2846	2843	2840	2837	2834	2831	2828
914.0	2825	2822	2819	2816	2813	2810	2807	2804	2801	2798
915.0	2795	2792	2789	2786	2783	2780	2777	2774	2771	2768
916.0	2766	2763	2760	2757	2754	2751	2748	2745	2742	2739
917.0	2736	2733	2730	2727	2724	2721	2718	2715	2712	2709
918.0	2706	2703	2700	2697	2694	2692	2689	2686	2683	2680
919.0	2677	2674	2671	2668	2665	2662	2659	2656	2653	2650

TABLE IX - Continued

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GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
920.0	2647	2644	2641	2638	2635	2632	2629	2627	2624	2621
921.0	2618	2615	2612	2609	2606	2603	2600	2597	2594	2591
922.0	2588	2585	2582	2579	2576	2573	2571	2568	2565	2562
923.0	2559	2556	2553	2550	2547	2544	2541	2538	2535	2532
924.0	2529	2526	2523	2520	2518	2515	2512	2509	2506	2503
925.0	2500	2497	2494	2491	2488	2485	2482	2479	2476	2473
926.0	2470	2468	2465	2462	2459	2456	2453	2450	2447	2444
927.0	2441	2438	2435	2432	2429	2426	2424	2421	2418	2415
928.0	2412	2409	2406	2403	2400	2397	2394	2391	2388	2385
929.0	2382	2380	2377	2374	2371	2368	2365	2362	2359	2356
930.0	2353	2350	2347	2344	2341	2339	2336	2333	2330	2327
931.0	2324	2321	2318	2315	2312	2309	2306	2303	2301	2298
932.0	2295	2292	2289	2286	2283	2280	2277	2274	2271	2268
933.0	2285	2282	2279	2276	2273	2271	2268	2265	2262	2259
934.0	2276	2273	2270	2267	2264	2261	2258	2255	2252	2249
935.0	2266	2263	2260	2257	2254	2251	2248	2245	2242	2239
936.0	2257	2254	2251	2248	2245	2242	2239	2236	2233	2230
937.0	2247	2244	2241	2238	2235	2232	2229	2226	2223	2220
938.0	2238	2235	2232	2229	2226	2223	2220	2217	2214	2211
939.0	2228	2225	2222	2219	2216	2213	2210	2207	2204	2201
940.0	2219	2216	2213	2210	2207	2204	2201	2198	2195	2192
941.0	2209	2206	2203	2200	2197	2194	2191	2188	2185	2182
942.0	2199	2196	2193	2190	2187	2184	2181	2178	2175	2172
943.0	2189	2186	2183	2180	2177	2174	2171	2168	2165	2162
944.0	2179	2176	2173	2170	2167	2164	2161	2158	2155	2152
945.0	2169	2166	2163	2160	2157	2154	2151	2148	2145	2142
946.0	2159	2156	2153	2150	2147	2144	2141	2138	2135	2132
947.0	2149	2146	2143	2140	2137	2134	2131	2128	2125	2122
948.0	2139	2136	2133	2130	2127	2124	2121	2118	2115	2112
949.0	2129	2126	2123	2120	2117	2114	2111	2108	2105	2102
950.0	2119	2116	2113	2110	2107	2104	2101	2098	2095	2092
951.0	2109	2106	2103	2100	2097	2094	2091	2088	2085	2082
952.0	2099	2096	2093	2090	2087	2084	2081	2078	2075	2072
953.0	2089	2086	2083	2080	2077	2074	2071	2068	2065	2062
954.0	2079	2076	2073	2070	2067	2064	2061	2058	2055	2052
955.0	2069	2066	2063	2060	2057	2054	2051	2048	2045	2042
956.0	2059	2056	2053	2050	2047	2044	2041	2038	2035	2032
957.0	2049	2046	2043	2040	2037	2034	2031	2028	2025	2022
958.0	2039	2036	2033	2030	2027	2024	2021	2018	2015	2012
959.0	2029	2026	2023	2020	2017	2014	2011	2008	2005	2002
960.0	2019	2016	2013	2010	2007	2004	2001	1998	1995	1992
961.0	2009	2006	2003	2000	1997	1994	1991	1988	1985	1982
962.0	1999	1996	1993	1990	1987	1984	1981	1978	1975	1972
963.0	1989	1986	1983	1980	1977	1974	1971	1968	1965	1962
964.0	1979	1976	1973	1970	1967	1964	1961	1958	1955	1952
965.0	1969	1966	1963	1960	1957	1954	1951	1948	1945	1942
966.0	1959	1956	1953	1950	1947	1944	1941	1938	1935	1932
967.0	1949	1946	1943	1940	1937	1934	1931	1928	1925	1922
968.0	1939	1936	1933	1930	1927	1924	1921	1918	1915	1912
969.0	1929	1926	1923	1920	1917	1914	1911	1908	1905	1902
970.0	1919	1916	1913	1910	1907	1904	1901	1898	1895	1892
971.0	1909	1906	1903	1900	1897	1894	1891	1888	1885	1882
972.0	1899	1896	1893	1890	1887	1884	1881	1878	1875	1872
973.0	1889	1886	1883	1880	1877	1874	1871	1868	1865	1862
974.0	1879	1876	1873	1870	1867	1864	1861	1858	1855	1852
975.0	1869	1866	1863	1860	1857	1854	1851	1848	1845	1842
976.0	1859	1856	1853	1850	1847	1844	1841	1838	1835	1832
977.0	1849	1846	1843	1840	1837	1834	1831	1828	1825	1822
978.0	1839	1836	1833	1830	1827	1824	1821	1818	1815	1812
979.0	1829	1826	1823	1820	1817	1814	1811	1808	1805	1802
980.0	1819	1816	1813	1810	1807	1804	1801	1798	1795	1792
981.0	1809	1806	1803	1800	1797	1794	1791	1788	1785	1782
982.0	1799	1796	1793	1790	1787	1784	1781	1778	1775	1772
983.0	1789	1786	1783	1780	1777	1774	1771	1768	1765	1762
984.0	1779	1776	1773	1770	1767	1764	1761	1758	1755	1752
985.0	1769	1766	1763	1760	1757	1754	1751	1748	1745	1742
986.0	1759	1756	1753	1750	1747	1744	1741	1738	1735	1732
987.0	1749	1746	1743	1740	1737	1734	1731	1728	1725	1722
988.0	1739	1736	1733	1730	1727	1724	1721	1718	1715	1712
989.0	1729	1726	1723	1720	1717	1714	1711	1708	1705	1702
990.0	1719	1716	1713	1710	1707	1704	1701	1698	1695	1692
991.0	1709	1706	1703	1700	1697	1694	1691	1688	1685	1682
992.0	1699	1696	1693	1690	1687	1684	1681	1678	1675	1672
993.0	1689	1686	1683	1680	1677	1674	1671	1668	1665	1662
994.0	1679	1676	1673	1670	1667	1664	1661	1658	1655	1652
995.0	1669	1666	1663	1660	1657	1654	1651	1648	1645	1642
996.0	1659	1656	1653	1650	1647	1644	1641	1638	1635	1632
997.0	1649	1646	1643	1640	1637	1634	1631	1628	1625	1622
998.0	1639	1636	1633	1630	1627	1624	1621	1618	1615	1612
999.0	1629	1626	1623	1620	1617	1614	1611	1608	1605	1602
1000.0	1619	1616	1613	1610	1607	1604	1601	1598	1595	1592
1001.0	1609	1606	1603	1600	1597	1594	1591	1588	1585	1582
1002.0	1599	1596	1593	1590	1587	1584	1581	1578	1575	1572
1003.0	1589	1586	1583	1580	1577	1574	1571	1568	1565	1562
1004.0	1579	1576	1573	1570	1567	1564	1561	1558	1555	1552
1005.0	1569	1566	1563	1560	1557	1554	1551	1548	1545	1542
1006.0	1559	1556	1553	1550	1547	1544	1541	1538	1535	1532
1007.0	1549	1546	1543	1540	1537	1534	1531	1528	1525	1522
1008.0	1539	1536	1533	1530	1527	1524	1521	1518	1515	1512
1009.0	1529	1526	1523	1520	1517	1514	1511	1508	1505	1502
1010.0	1519	1516	1513	1510	1507	1504	1501	1498	1495	1492
1011.0	1509	1506	1503	1500	1497	1494	1491	1488	1485	1482
1012.0	1499	1496	1493	1490	1487	1484	1481	1478	1475	1472
1013.0	1489	1486	1483	1480	1477	1474	1471	1468	1465	1462
1014.0	1479	1476	1473	1470	1467	1464	1461	1458	1455	1452
1015.0	1469	1466	1463	1460	1457	1454	1451	1448	1445	1442
1016.0	1459	1456	1453	1450	1447	1444	1441	1438	1435	1432
1017.0	1449	1446	1443	1440	1437	1434	1431	1428	1425	1422
1018.0	1439	1436	1433	1430	1427	1424	1421	1418	1415	1412
1019.0	1429	1426	1423	1420	1417	1414	1411	1408	1405	1402
1020.0	1419	1416	1413	1410	1407	1404	1401	1398	1395	1392

TABLE IX - Continued

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1020.0	-184	-187	-189	-192	-195	-197	-200	-203	-206	-208
1021.0	-211	-214	-216	-219	-222	-225	-227	-230	-233	-235
1022.0	-238	-241	-244	-246	-249	-252	-254	-257	-260	-263
1023.0	-268	-271	-274	-277	-280	-283	-286	-289	-292	-295
1024.0	-298	-301	-304	-307	-310	-313	-316	-319	-322	-325
1025.0	-328	-331	-334	-337	-340	-343	-346	-349	-352	-355
1026.0	-358	-361	-364	-367	-370	-373	-376	-379	-382	-385
1027.0	-388	-391	-394	-397	-400	-403	-406	-409	-412	-415
1028.0	-418	-421	-424	-427	-430	-433	-436	-439	-442	-445
1029.0	-448	-451	-454	-457	-460	-463	-466	-469	-472	-475
1030.0	-478	-481	-484	-487	-490	-493	-496	-499	-502	-505
1031.0	-508	-511	-514	-517	-520	-523	-526	-529	-532	-535
1032.0	-538	-541	-544	-547	-550	-553	-556	-559	-562	-565
1033.0	-568	-571	-574	-577	-580	-583	-586	-589	-592	-595
1034.0	-598	-601	-604	-607	-610	-613	-616	-619	-622	-625
1035.0	-628	-631	-634	-637	-640	-643	-646	-649	-652	-655
1036.0	-658	-661	-664	-667	-670	-673	-676	-679	-682	-685
1037.0	-688	-691	-694	-697	-700	-703	-706	-709	-712	-715
1038.0	-718	-721	-724	-727	-730	-733	-736	-739	-742	-745
1039.0	-748	-751	-754	-757	-760	-763	-766	-769	-772	-775
1040.0	-778	-781	-784	-787	-790	-793	-796	-799	-802	-805
1041.0	-808	-811	-814	-817	-820	-823	-826	-829	-832	-835
1042.0	-838	-841	-844	-847	-850	-853	-856	-859	-862	-865
1043.0	-868	-871	-874	-877	-880	-883	-886	-889	-892	-895
1044.0	-898	-901	-904	-907	-910	-913	-916	-919	-922	-925
1045.0	-928	-931	-934	-937	-940	-943	-946	-949	-952	-955
1046.0	-958	-961	-964	-967	-970	-973	-976	-979	-982	-985
1047.0	-988	-991	-994	-997	-1000	-1003	-1006	-1009	-1012	-1015
1048.0	-1018	-1021	-1024	-1027	-1030	-1033	-1036	-1039	-1042	-1045
1049.0	-1048	-1051	-1054	-1057	-1060	-1063	-1066	-1069	-1072	-1075
1050.0	-1078	-1081	-1084	-1087	-1090	-1093	-1096	-1099	-1102	-1105
1051.0	-1108	-1111	-1114	-1117	-1120	-1123	-1126	-1129	-1132	-1135
1052.0	-1138	-1141	-1144	-1147	-1150	-1153	-1156	-1159	-1162	-1165
1053.0	-1168	-1171	-1174	-1177	-1180	-1183	-1186	-1189	-1192	-1195
1054.0	-1198	-1201	-1204	-1207	-1210	-1213	-1216	-1219	-1222	-1225
1055.0	-1228	-1231	-1234	-1237	-1240	-1243	-1246	-1249	-1252	-1255
1056.0	-1258	-1261	-1264	-1267	-1270	-1273	-1276	-1279	-1282	-1285
1057.0	-1288	-1291	-1294	-1297	-1300	-1303	-1306	-1309	-1312	-1315
1058.0	-1318	-1321	-1324	-1327	-1330	-1333	-1336	-1339	-1342	-1345
1059.0	-1348	-1351	-1354	-1357	-1360	-1363	-1366	-1369	-1372	-1375
1060.0	-1378	-1381	-1384	-1387	-1390	-1393	-1396	-1399	-1402	-1405
1061.0	-1408	-1411	-1414	-1417	-1420	-1423	-1426	-1429	-1432	-1435
1062.0	-1438	-1441	-1444	-1447	-1450	-1453	-1456	-1459	-1462	-1465
1063.0	-1468	-1471	-1474	-1477	-1480	-1483	-1486	-1489	-1492	-1495
1064.0	-1498	-1501	-1504	-1507	-1510	-1513	-1516	-1519	-1522	-1525
1065.0	-1528	-1531	-1534	-1537	-1540	-1543	-1546	-1549	-1552	-1555
1066.0	-1558	-1561	-1564	-1567	-1570	-1573	-1576	-1579	-1582	-1585
1067.0	-1588	-1591	-1594	-1597	-1600	-1603	-1606	-1609	-1612	-1615
1068.0	-1618	-1621	-1624	-1627	-1630	-1633	-1636	-1639	-1642	-1645
1069.0	-1648	-1651	-1654	-1657	-1660	-1663	-1666	-1669	-1672	-1675
1070.0	-1678	-1681	-1684	-1687	-1690	-1693	-1696	-1699	-1702	-1705
1071.0	-1708	-1711	-1714	-1717	-1720	-1723	-1726	-1729	-1732	-1735
1072.0	-1738	-1741	-1744	-1747	-1750	-1753	-1756	-1759	-1762	-1765
1073.0	-1768	-1771	-1774	-1777	-1780	-1783	-1786	-1789	-1792	-1795
1074.0	-1798	-1801	-1804	-1807	-1810	-1813	-1816	-1819	-1822	-1825
1075.0	-1828	-1831	-1834	-1837	-1840	-1843	-1846	-1849	-1852	-1855
1076.0	-1858	-1861	-1864	-1867	-1870	-1873	-1876	-1879	-1882	-1885
1077.0	-1888	-1891	-1894	-1897	-1900	-1903	-1906	-1909	-1912	-1915
1078.0	-1918	-1921	-1924	-1927	-1930	-1933	-1936	-1939	-1942	-1945
1079.0	-1948	-1951	-1954	-1957	-1960	-1963	-1966	-1969	-1972	-1975
1080.0	-1978	-1981	-1984	-1987	-1990	-1993	-1996	-1999	-2002	-2005
1081.0	-2008	-2011	-2014	-2017	-2020	-2023	-2026	-2029	-2032	-2035
1082.0	-2038	-2041	-2044	-2047	-2050	-2053	-2056	-2059	-2062	-2065
1083.0	-2068	-2071	-2074	-2077	-2080	-2083	-2086	-2089	-2092	-2095
1084.0	-2098	-2101	-2104	-2107	-2110	-2113	-2116	-2119	-2122	-2125
1085.0	-2128	-2131	-2134	-2137	-2140	-2143	-2146	-2149	-2152	-2155
1086.0	-2158	-2161	-2164	-2167	-2170	-2173	-2176	-2179	-2182	-2185
1087.0	-2188	-2191	-2194	-2197	-2200	-2203	-2206	-2209	-2212	-2215
1088.0	-2218	-2221	-2224	-2227	-2230	-2233	-2236	-2239	-2242	-2245
1089.0	-2248	-2251	-2254	-2257	-2260	-2263	-2266	-2269	-2272	-2275
1090.0	-2278	-2281	-2284	-2287	-2290	-2293	-2296	-2299	-2302	-2305
1091.0	-2308	-2311	-2314	-2317	-2320	-2323	-2326	-2329	-2332	-2335
1092.0	-2338	-2341	-2344	-2347	-2350	-2353	-2356	-2359	-2362	-2365
1093.0	-2368	-2371	-2374	-2377	-2380	-2383	-2386	-2389	-2392	-2395
1094.0	-2398	-2401	-2404	-2407	-2410	-2413	-2416	-2419	-2422	-2425
1095.0	-2428	-2431	-2434	-2437	-2440	-2443	-2446	-2449	-2452	-2455
1096.0	-2458	-2461	-2464	-2467	-2470	-2473	-2476	-2479	-2482	-2485
1097.0	-2488	-2491	-2494	-2497	-2500	-2503	-2506	-2509	-2512	-2515
1098.0	-2518	-2521	-2524	-2527	-2530	-2533	-2536	-2539	-2542	-2545
1099.0	-2548	-2551	-2554	-2557	-2560	-2563	-2566	-2569	-2572	-2575
1100.0	-2578	-2581	-2584	-2587	-2590	-2593	-2596	-2599	-2602	-2605
1101.0	-2608	-2611	-2614	-2617	-2620	-2623	-2626	-2629	-2632	-2635
1102.0	-2638	-2641	-2644	-2647	-2650	-2653	-2656	-2659	-2662	-2665
1103.0	-2668	-2671	-2674	-2677	-2680	-2683	-2686	-2689	-2692	-2695
1104.0	-2698	-2701	-2704	-2707	-2710	-2713	-2716	-2719	-2722	-2725
1105.0	-2728	-2731	-2734	-2737	-2740	-2743	-2746	-2749	-2752	-2755
1106.0	-2758	-2761	-2764	-2767	-2770	-2773	-2776	-2779	-2782	-2785
1107.0	-2788	-2791	-2794	-2797	-2800	-2803	-2806	-2809	-2812	-2815
1108.0	-2818	-2821	-2824	-2827	-2830	-2833	-2836	-2839	-2842	-2845
1109.0	-2848	-2851	-2854	-2857	-2860	-2863	-2866	-2869	-2872	-2875
1110.0	-2878	-2881	-2884	-2887	-2890	-2893	-2896	-2899	-2902	-2905
1111.0	-2908	-2911	-2914	-2917	-2920	-2923	-2926	-2929	-2932	-2935
1112.0	-2938	-2941	-2944	-2947	-2950	-2953	-2956	-2959	-2962	-2965
1113.0	-2968	-2971	-2974	-2977	-2980	-2983	-2986	-2989	-2992	-2995
1114.0	-2998	-3001	-3004	-3007	-3010	-3013	-3016	-3019	-3022	-3025
1115.0	-3028	-3031	-3034	-3037	-3040	-3043	-3046	-3049	-3052	-3055
1116.0	-3058	-3061	-3064	-3067	-3070	-3073	-3076	-3079	-3082	-3085
1117.0	-3088	-3091	-3094	-3097	-3100	-3103	-3106	-3109	-3112	-3115
1118.0	-3118	-3121	-3124	-3127	-3130	-3133	-3136	-3139	-3142	-3145
1119.0	-3148	-3151	-3154	-3157	-3160	-3163	-3166	-3169	-3172	-3175

TABLE IX - Continued

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GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1120.0	-2798	-2801	-2803	-2806	-2808	-2811	-2814	-2816	-2819	-2821
1121.0	-2800	-2803	-2805	-2808	-2810	-2813	-2816	-2818	-2821	-2823
1122.0	-2802	-2805	-2807	-2810	-2812	-2815	-2818	-2820	-2823	-2825
1123.0	-2804	-2807	-2809	-2812	-2814	-2817	-2820	-2822	-2825	-2827
1124.0	-2806	-2809	-2811	-2814	-2816	-2819	-2822	-2824	-2827	-2829
1125.0	-2808	-2811	-2813	-2816	-2818	-2821	-2824	-2826	-2829	-2831
1126.0	-2810	-2813	-2815	-2818	-2820	-2823	-2826	-2828	-2831	-2833
1127.0	-2812	-2815	-2817	-2820	-2822	-2825	-2828	-2830	-2833	-2835
1128.0	-2814	-2817	-2819	-2822	-2824	-2827	-2830	-2832	-2835	-2837
1129.0	-2816	-2819	-2821	-2824	-2826	-2829	-2832	-2834	-2837	-2839
1130.0	-2818	-2821	-2823	-2826	-2828	-2831	-2834	-2836	-2839	-2841
1131.0	-2820	-2823	-2825	-2828	-2830	-2833	-2836	-2838	-2841	-2843
1132.0	-2822	-2825	-2827	-2830	-2832	-2835	-2838	-2840	-2843	-2845
1133.0	-2824	-2827	-2829	-2832	-2834	-2837	-2840	-2842	-2845	-2847
1134.0	-2826	-2829	-2831	-2834	-2836	-2839	-2842	-2844	-2847	-2849
1135.0	-2828	-2831	-2833	-2836	-2838	-2841	-2844	-2846	-2849	-2851
1136.0	-2830	-2833	-2835	-2838	-2840	-2843	-2846	-2848	-2851	-2853
1137.0	-2832	-2835	-2837	-2840	-2842	-2845	-2848	-2850	-2853	-2855
1138.0	-2834	-2837	-2839	-2842	-2844	-2847	-2850	-2852	-2855	-2857
1139.0	-2836	-2839	-2841	-2844	-2846	-2849	-2852	-2854	-2857	-2859
1140.0	-2838	-2841	-2843	-2846	-2848	-2851	-2854	-2856	-2859	-2861
1141.0	-2840	-2843	-2845	-2848	-2850	-2853	-2856	-2858	-2861	-2863
1142.0	-2842	-2845	-2847	-2850	-2852	-2855	-2858	-2860	-2863	-2865
1143.0	-2844	-2847	-2849	-2852	-2854	-2857	-2860	-2862	-2865	-2867
1144.0	-2846	-2849	-2851	-2854	-2856	-2859	-2862	-2864	-2867	-2869
1145.0	-2848	-2851	-2853	-2856	-2858	-2861	-2864	-2866	-2869	-2871
1146.0	-2850	-2853	-2855	-2858	-2860	-2863	-2866	-2868	-2871	-2873
1147.0	-2852	-2855	-2857	-2860	-2862	-2865	-2868	-2870	-2873	-2875
1148.0	-2854	-2857	-2859	-2862	-2864	-2867	-2870	-2872	-2875	-2877
1149.0	-2856	-2859	-2861	-2864	-2866	-2869	-2872	-2874	-2877	-2879
1150.0	-2858	-2861	-2863	-2866	-2868	-2871	-2874	-2876	-2879	-2881
1151.0	-2860	-2863	-2865	-2868	-2870	-2873	-2876	-2878	-2881	-2883
1152.0	-2862	-2865	-2867	-2870	-2872	-2875	-2878	-2880	-2883	-2885
1153.0	-2864	-2867	-2869	-2872	-2874	-2877	-2880	-2882	-2885	-2887
1154.0	-2866	-2869	-2871	-2874	-2876	-2879	-2882	-2884	-2887	-2889
1155.0	-2868	-2871	-2873	-2876	-2878	-2881	-2884	-2886	-2889	-2891
1156.0	-2870	-2873	-2875	-2878	-2880	-2883	-2886	-2888	-2891	-2893
1157.0	-2872	-2875	-2877	-2880	-2882	-2885	-2888	-2890	-2893	-2895
1158.0	-2874	-2877	-2879	-2882	-2884	-2887	-2890	-2892	-2895	-2897
1159.0	-2876	-2879	-2881	-2884	-2886	-2889	-2892	-2894	-2897	-2899
1160.0	-2878	-2881	-2883	-2886	-2888	-2891	-2894	-2896	-2899	-2901
1161.0	-2880	-2883	-2885	-2888	-2890	-2893	-2896	-2898	-2901	-2903
1162.0	-2882	-2885	-2887	-2890	-2892	-2895	-2898	-2900	-2903	-2905
1163.0	-2884	-2887	-2889	-2892	-2894	-2897	-2900	-2902	-2905	-2907
1164.0	-2886	-2889	-2891	-2894	-2896	-2899	-2902	-2904	-2907	-2909
1165.0	-2888	-2891	-2893	-2896	-2898	-2901	-2904	-2906	-2909	-2911
1166.0	-2890	-2893	-2895	-2898	-2900	-2903	-2906	-2908	-2911	-2913
1167.0	-2892	-2895	-2897	-2900	-2902	-2905	-2908	-2910	-2913	-2915
1168.0	-2894	-2897	-2899	-2902	-2904	-2907	-2910	-2912	-2915	-2917
1169.0	-2896	-2899	-2901	-2904	-2906	-2909	-2912	-2914	-2917	-2919
1170.0	-2898	-2901	-2903	-2906	-2908	-2911	-2914	-2916	-2919	-2921
1171.0	-2900	-2903	-2905	-2908	-2910	-2913	-2916	-2918	-2921	-2923
1172.0	-2902	-2905	-2907	-2910	-2912	-2915	-2918	-2920	-2923	-2925
1173.0	-2904	-2907	-2909	-2912	-2914	-2917	-2920	-2922	-2925	-2927
1174.0	-2906	-2909	-2911	-2914	-2916	-2919	-2922	-2924	-2927	-2929
1175.0	-2908	-2911	-2913	-2916	-2918	-2921	-2924	-2926	-2929	-2931
1176.0	-2910	-2913	-2915	-2918	-2920	-2923	-2926	-2928	-2931	-2933
1177.0	-2912	-2915	-2917	-2920	-2922	-2925	-2928	-2930	-2933	-2935
1178.0	-2914	-2917	-2919	-2922	-2924	-2927	-2930	-2932	-2935	-2937
1179.0	-2916	-2919	-2921	-2924	-2926	-2929	-2932	-2934	-2937	-2939
1180.0	-2918	-2921	-2923	-2926	-2928	-2931	-2934	-2936	-2939	-2941
1181.0	-2920	-2923	-2925	-2928	-2930	-2933	-2936	-2938	-2941	-2943
1182.0	-2922	-2925	-2927	-2930	-2932	-2935	-2938	-2940	-2943	-2945
1183.0	-2924	-2927	-2929	-2932	-2934	-2937	-2940	-2942	-2945	-2947
1184.0	-2926	-2929	-2931	-2934	-2936	-2939	-2942	-2944	-2947	-2949
1185.0	-2928	-2931	-2933	-2936	-2938	-2941	-2944	-2946	-2949	-2951
1186.0	-2930	-2933	-2935	-2938	-2940	-2943	-2946	-2948	-2951	-2953
1187.0	-2932	-2935	-2937	-2940	-2942	-2945	-2948	-2950	-2953	-2955
1188.0	-2934	-2937	-2939	-2942	-2944	-2947	-2950	-2952	-2955	-2957
1189.0	-2936	-2939	-2941	-2944	-2946	-2949	-2952	-2954	-2957	-2959
1190.0	-2938	-2941	-2943	-2946	-2948	-2951	-2954	-2956	-2959	-2961
1191.0	-2940	-2943	-2945	-2948	-2950	-2953	-2956	-2958	-2961	-2963
1192.0	-2942	-2945	-2947	-2950	-2952	-2955	-2958	-2960	-2963	-2965
1193.0	-2944	-2947	-2949	-2952	-2954	-2957	-2960	-2962	-2965	-2967
1194.0	-2946	-2949	-2951	-2954	-2956	-2959	-2962	-2964	-2967	-2969
1195.0	-2948	-2951	-2953	-2956	-2958	-2961	-2964	-2966	-2969	-2971
1196.0	-2950	-2953	-2955	-2958	-2960	-2963	-2966	-2968	-2971	-2973
1197.0	-2952	-2955	-2957	-2960	-2962	-2965	-2968	-2970	-2973	-2975
1198.0	-2954	-2957	-2959	-2962	-2964	-2967	-2970	-2972	-2975	-2977
1199.0	-2956	-2959	-2961	-2964	-2966	-2969	-2972	-2974	-2977	-2979

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN MILLIBARS

P, mb	0	1	2	3	4	5	6	7	8	9
1200.	-4757	-4751	-4805	-4829	-4852	-4876	-4900	-4923	-4947	-4971
1210.	-4794	-4818	-4842	-4865	-4889	-4913	-4936	-4960	-4983	-5007
1220.	-4830	-4854	-4877	-4901	-4924	-4948	-4971	-4994	-5018	-5041
1230.	-4864	-4888	-4911	-4934	-4958	-4981	-5004	-5027	-5051	-5074
1240.	-4897	-4920	-4943	-4967	-4990	-5013	-5036	-5059	-5082	-5105
1250.	-4928	-4951	-4974	-4997	-5020	-5043	-5066	-5089	-5112	-5135
1260.	-4958	-4981	-5004	-5027	-5050	-5073	-5096	-5119	-5142	-5165
1270.	-4986	-5009	-5032	-5055	-5078	-5101	-5124	-5147	-5170	-5193
1280.	-5013	-5036	-5059	-5082	-5105	-5128	-5151	-5174	-5197	-5220
1290.	-5038	-5061	-5084	-5107	-5130	-5153	-5176	-5199	-5222	-5245
1300.	-5062	-5085	-5108	-5131	-5154	-5177	-5200	-5223	-5246	-5269
1310.	-5085	-5108	-5131	-5154	-5177	-5200	-5223	-5246	-5269	-5292
1320.	-5108	-5131	-5154	-5177	-5200	-5223	-5246	-5269	-5292	-5315
1330.	-5130	-5153	-5176	-5199	-5222	-5245	-5268	-5291	-5314	-5337
1340.	-5151	-5174	-5197	-5220	-5243	-5266	-5289	-5312	-5335	-5358
1350.	-5172	-5195	-5218	-5241	-5264	-5287	-5310	-5333	-5356	-5379
1360.	-5192	-5215	-5238	-5261	-5284	-5307	-5330	-5353	-5376	-5399
1370.	-5211	-5234	-5257	-5280	-5303	-5326	-5349	-5372	-5395	-5418
1380.	-5229	-5252	-5275	-5298	-5321	-5344	-5367	-5390	-5413	-5436
1390.	-5246	-5269	-5292	-5315	-5338	-5361	-5384	-5407	-5430	-5453
1400.	-5262	-5285	-5308	-5331	-5354	-5377	-5400	-5423	-5446	-5469
1410.	-5277	-5300	-5323	-5346	-5369	-5392	-5415	-5438	-5461	-5484
1420.	-5291	-5314	-5337	-5360	-5383	-5406	-5429	-5452	-5475	-5498
1430.	-5304	-5327	-5350	-5373	-5396	-5419	-5442	-5465	-5488	-5511
1440.	-5316	-5339	-5362	-5385	-5408	-5431	-5454	-5477	-5500	-5523
1450.	-5327	-5350	-5373	-5396	-5419	-5442	-5465	-5488	-5511	-5534
1460.	-5338	-5361	-5384	-5407	-5430	-5453	-5476	-5499	-5522	-5545
1470.	-5348	-5371	-5394	-5417	-5440	-5463	-5486	-5509	-5532	-5555
1480.	-5357	-5380	-5403	-5426	-5449	-5472	-5495	-5518	-5541	-5564
1490.	-5365	-5388	-5411	-5434	-5457	-5480	-5503	-5526	-5549	-5572
1500.	-5372	-5395	-5418	-5441	-5464	-5487	-5510	-5533	-5556	-5579
1510.	-5379	-5402	-5425	-5448	-5471	-5494	-5517	-5540	-5563	-5586
1520.	-5385	-5408	-5431	-5454	-5477	-5500	-5523	-5546	-5569	-5592
1530.	-5390	-5413	-5436	-5459	-5482	-5505	-5528	-5551	-5574	-5597
1540.	-5394	-5417	-5440	-5463	-5486	-5509	-5532	-5555	-5578	-5601
1550.	-5398	-5421	-5444	-5467	-5490	-5513	-5536	-5559	-5582	-5605
1560.	-5401	-5424	-5447	-5470	-5493	-5516	-5539	-5562	-5585	-5608
1570.	-5404	-5427	-5450	-5473	-5496	-5519	-5542	-5565	-5588	-5611
1580.	-5406	-5429	-5452	-5475	-5498	-5521	-5544	-5567	-5590	-5613
1590.	-5408	-5431	-5454	-5477	-5500	-5523	-5546	-5569	-5592	-5615
1600.	-5409	-5432	-5455	-5478	-5501	-5524	-5547	-5570	-5593	-5616
1610.	-5410	-5433	-5456	-5479	-5502	-5525	-5548	-5571	-5594	-5617
1620.	-5411	-5434	-5457	-5480	-5503	-5526	-5549	-5572	-5595	-5618
1630.	-5412	-5435	-5458	-5481	-5504	-5527	-5550	-5573	-5596	-5619
1640.	-5413	-5436	-5459	-5482	-5505	-5528	-5551	-5574	-5597	-5620
1650.	-5414	-5437	-5460	-5483	-5506	-5529	-5552	-5575	-5598	-5621
1660.	-5415	-5438	-5461	-5484	-5507	-5530	-5553	-5576	-5599	-5622
1670.	-5416	-5439	-5462	-5485	-5508	-5531	-5554	-5577	-5600	-5623
1680.	-5417	-5440	-5463	-5486	-5509	-5532	-5555	-5578	-5601	-5624
1690.	-5418	-5441	-5464	-5487	-5510	-5533	-5556	-5579	-5602	-5625
1700.	-5419	-5442	-5465	-5488	-5511	-5534	-5557	-5580	-5603	-5626
1710.	-5420	-5443	-5466	-5489	-5512	-5535	-5558	-5581	-5604	-5627
1720.	-5421	-5444	-5467	-5490	-5513	-5536	-5559	-5582	-5605	-5628
1730.	-5422	-5445	-5468	-5491	-5514	-5537	-5560	-5583	-5606	-5629
1740.	-5423	-5446	-5469	-5492	-5515	-5538	-5561	-5584	-5607	-5630
1750.	-5424	-5447	-5470	-5493	-5516	-5539	-5562	-5585	-5608	-5631
1760.	-5425	-5448	-5471	-5494	-5517	-5540	-5563	-5586	-5609	-5632
1770.	-5426	-5449	-5472	-5495	-5518	-5541	-5564	-5587	-5610	-5633

Table X
GEOPOTENTIAL ALTITUDE IN FEET AS A FUNCTION OF PRESSURE IN
INCHES OF MERCURY

TABLE X

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P, mmHg	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
.250	104674	104590	104506	104423	104339	104256	104173	104089	104004	103920
.260	103846	103763	103680	103597	103514	103431	103348	103265	103182	103099
.270	103019	102936	102853	102770	102687	102604	102521	102438	102355	102272
.280	102039	101956	101873	101790	101707	101624	101541	101458	101375	101292
.290	101109	101026	100943	100860	100777	100694	100611	100528	100445	100362
.300	100279	100196	100113	100030	99947	99864	99781	99698	99615	99532
.310	99449	99366	99283	99200	99117	99034	98951	98868	98785	98702
.320	98619	98536	98453	98370	98287	98204	98121	98038	97955	97872
.330	97789	97706	97623	97540	97457	97374	97291	97208	97125	97042
.340	96959	96876	96793	96710	96627	96544	96461	96378	96295	96212
.350	96129	96046	95963	95880	95797	95714	95631	95548	95465	95382
.360	95249	95166	95083	95000	94917	94834	94751	94668	94585	94502
.370	94419	94336	94253	94170	94087	94004	93921	93838	93755	93672
.380	93539	93456	93373	93290	93207	93124	93041	92958	92875	92792
.390	92659	92576	92493	92410	92327	92244	92161	92078	91995	91912
.400	91779	91696	91613	91530	91447	91364	91281	91198	91115	91032
.410	90899	90816	90733	90650	90567	90484	90401	90318	90235	90152
.420	90019	89936	89853	89770	89687	89604	89521	89438	89355	89272
.430	89139	89056	88973	88890	88807	88724	88641	88558	88475	88392
.440	88219	88136	88053	87970	87887	87804	87721	87638	87555	87472
.450	87299	87216	87133	87050	86967	86884	86801	86718	86635	86552
.460	86379	86296	86213	86130	86047	85964	85881	85798	85715	85632
.470	85459	85376	85293	85210	85127	85044	84961	84878	84795	84712
.480	84539	84456	84373	84290	84207	84124	84041	83958	83875	83792
.490	83679	83596	83513	83430	83347	83264	83181	83098	83015	82932
.500	82759	82676	82593	82510	82427	82344	82261	82178	82095	82012
.510	81779	81696	81613	81530	81447	81364	81281	81198	81115	81032
.520	80899	80816	80733	80650	80567	80484	80401	80318	80235	80152
.530	80019	79936	79853	79770	79687	79604	79521	79438	79355	79272
.540	79139	79056	78973	78890	78807	78724	78641	78558	78475	78392
.550	78219	78136	78053	77970	77887	77804	77721	77638	77555	77472
.560	77299	77216	77133	77050	76967	76884	76801	76718	76635	76552
.570	76379	76296	76213	76130	76047	75964	75881	75798	75715	75632
.580	75459	75376	75293	75210	75127	75044	74961	74878	74795	74712
.590	74539	74456	74373	74290	74207	74124	74041	73958	73875	73792
.600	73679	73596	73513	73430	73347	73264	73181	73098	73015	72932
.610	72759	72676	72593	72510	72427	72344	72261	72178	72095	72012
.620	71779	71696	71613	71530	71447	71364	71281	71198	71115	71032
.630	70899	70816	70733	70650	70567	70484	70401	70318	70235	70152
.640	70019	69936	69853	69770	69687	69604	69521	69438	69355	69272
.650	69139	69056	68973	68890	68807	68724	68641	68558	68475	68392
.660	68219	68136	68053	67970	67887	67804	67721	67638	67555	67472
.670	67299	67216	67133	67050	66967	66884	66801	66718	66635	66552
.680	66379	66296	66213	66130	66047	65964	65881	65798	65715	65632
.690	65459	65376	65293	65210	65127	65044	64961	64878	64795	64712
.700	64539	64456	64373	64290	64207	64124	64041	63958	63875	63792
.710	63679	63596	63513	63430	63347	63264	63181	63098	63015	62932
.720	62759	62676	62593	62510	62427	62344	62261	62178	62095	62012
.730	61779	61696	61613	61530	61447	61364	61281	61198	61115	61032
.740	60899	60816	60733	60650	60567	60484	60401	60318	60235	60152
.750	60019	59936	59853	59770	59687	59604	59521	59438	59355	59272
.760	59139	59056	58973	58890	58807	58724	58641	58558	58475	58392
.770	58219	58136	58053	57970	57887	57804	57721	57638	57555	57472
.780	57299	57216	57133	57050	56967	56884	56801	56718	56635	56552
.790	56379	56296	56213	56130	56047	55964	55881	55798	55715	55632
.800	55459	55376	55293	55210	55127	55044	54961	54878	54795	54712
.810	54539	54456	54373	54290	54207	54124	54041	53958	53875	53792
.820	53679	53596	53513	53430	53347	53264	53181	53098	53015	52932
.830	52759	52676	52593	52510	52427	52344	52261	52178	52095	52012
.840	51779	51696	51613	51530	51447	51364	51281	51198	51115	51032
.850	50899	50816	50733	50650	50567	50484	50401	50318	50235	50152
.860	50019	49936	49853	49770	49687	49604	49521	49438	49355	49272
.870	49139	49056	48973	48890	48807	48724	48641	48558	48475	48392
.880	48219	48136	48053	47970	47887	47804	47721	47638	47555	47472
.890	47299	47216	47133	47050	46967	46884	46801	46718	46635	46552
.900	46379	46296	46213	46130	46047	45964	45881	45798	45715	45632
.910	45459	45376	45293	45210	45127	45044	44961	44878	44795	44712
.920	44539	44456	44373	44290	44207	44124	44041	43958	43875	43792
.930	43679	43596	43513	43430	43347	43264	43181	43098	43015	42932
.940	42759	42676	42593	42510	42427	42344	42261	42178	42095	42012
.950	41779	41696	41613	41530	41447	41364	41281	41198	41115	41032
.960	40899	40816	40733	40650	40567	40484	40401	40318	40235	40152
.970	40019	39936	39853	39770	39687	39604	39521	39438	39355	39272
.980	39139	39056	38973	38890	38807	38724	38641	38558	38475	38392
.990	38219	38136	38053	37970	37887	37804	37721	37638	37555	37472

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P.M. Hg	0 000	0 001	0 002	0 003	0 004	0 005	0 006	0 007	0 008	0 009
1.000	75603	75642	75680	75719	75758	75797	75836	75875	75914	75953
1.001	75643	75682	75721	75760	75799	75838	75877	75916	75955	75994
1.002	75683	75722	75761	75800	75839	75878	75917	75956	75995	76034
1.003	75723	75762	75801	75840	75879	75918	75957	75996	76035	76074
1.004	75763	75802	75841	75880	75919	75958	75997	76036	76075	76114
1.005	75803	75842	75881	75920	75959	75998	76037	76076	76115	76154
1.006	75843	75882	75921	75960	75999	76038	76077	76116	76155	76194
1.007	75883	75922	75961	76000	76039	76078	76117	76156	76195	76234
1.008	75923	75962	76001	76040	76079	76118	76157	76196	76235	76274
1.009	75963	76002	76041	76080	76119	76158	76197	76236	76275	76314
1.010	76003	76042	76081	76120	76159	76198	76237	76276	76315	76354
1.011	76043	76082	76121	76160	76199	76238	76277	76316	76355	76394
1.012	76083	76122	76161	76200	76239	76278	76317	76356	76395	76434
1.013	76123	76162	76201	76240	76279	76318	76357	76396	76435	76474
1.014	76163	76202	76241	76280	76319	76358	76397	76436	76475	76514
1.015	76203	76242	76281	76320	76359	76398	76437	76476	76515	76554
1.016	76243	76282	76321	76360	76399	76438	76477	76516	76555	76594
1.017	76283	76322	76361	76400	76439	76478	76517	76556	76595	76634
1.018	76323	76362	76401	76440	76479	76518	76557	76596	76635	76674
1.019	76363	76402	76441	76480	76519	76558	76597	76636	76675	76714
1.020	76403	76442	76481	76520	76559	76598	76637	76676	76715	76754
1.021	76443	76482	76521	76560	76599	76638	76677	76716	76755	76794
1.022	76483	76522	76561	76600	76639	76678	76717	76756	76795	76834
1.023	76523	76562	76601	76640	76679	76718	76757	76796	76835	76874
1.024	76563	76602	76641	76680	76719	76758	76797	76836	76875	76914
1.025	76603	76642	76681	76720	76759	76798	76837	76876	76915	76954
1.026	76643	76682	76721	76760	76799	76838	76877	76916	76955	76994
1.027	76683	76722	76761	76800	76839	76878	76917	76956	76995	77034
1.028	76723	76762	76801	76840	76879	76918	76957	76996	77035	77074
1.029	76763	76802	76841	76880	76919	76958	76997	77036	77075	77114
1.030	76803	76842	76881	76920	76959	76998	77037	77076	77115	77154
1.031	76843	76882	76921	76960	76999	77038	77077	77116	77155	77194
1.032	76883	76922	76961	77000	77039	77078	77117	77156	77195	77234
1.033	76923	76962	77001	77040	77079	77118	77157	77196	77235	77274
1.034	76963	77002	77041	77080	77119	77158	77197	77236	77275	77314
1.035	77003	77042	77081	77120	77159	77198	77237	77276	77315	77354
1.036	77043	77082	77121	77160	77199	77238	77277	77316	77355	77394
1.037	77083	77122	77161	77200	77239	77278	77317	77356	77395	77434
1.038	77123	77162	77201	77240	77279	77318	77357	77396	77435	77474
1.039	77163	77202	77241	77280	77319	77358	77397	77436	77475	77514
1.040	77203	77242	77281	77320	77359	77398	77437	77476	77515	77554
1.041	77243	77282	77321	77360	77399	77438	77477	77516	77555	77594
1.042	77283	77322	77361	77400	77439	77478	77517	77556	77595	77634
1.043	77323	77362	77401	77440	77479	77518	77557	77596	77635	77674
1.044	77363	77402	77441	77480	77519	77558	77597	77636	77675	77714
1.045	77403	77442	77481	77520	77559	77598	77637	77676	77715	77754
1.046	77443	77482	77521	77560	77599	77638	77677	77716	77755	77794
1.047	77483	77522	77561	77600	77639	77678	77717	77756	77795	77834
1.048	77523	77562	77601	77640	77679	77718	77757	77796	77835	77874
1.049	77563	77602	77641	77680	77719	77758	77797	77836	77875	77914
1.050	77603	77642	77681	77720	77759	77798	77837	77876	77915	77954
1.051	77643	77682	77721	77760	77799	77838	77877	77916	77955	77994
1.052	77683	77722	77761	77800	77839	77878	77917	77956	77995	78034
1.053	77723	77762	77801	77840	77879	77918	77957	77996	78035	78074
1.054	77763	77802	77841	77880	77919	77958	77997	78036	78075	78114
1.055	77803	77842	77881	77920	77959	77998	78037	78076	78115	78154
1.056	77843	77882	77921	77960	77999	78038	78077	78116	78155	78194
1.057	77883	77922	77961	78000	78039	78078	78117	78156	78195	78234
1.058	77923	77962	78001	78040	78079	78118	78157	78196	78235	78274
1.059	77963	78002	78041	78080	78119	78158	78197	78236	78275	78314
1.060	78003	78042	78081	78120	78159	78198	78237	78276	78315	78354
1.061	78043	78082	78121	78160	78199	78238	78277	78316	78355	78394
1.062	78083	78122	78161	78200	78239	78278	78317	78356	78395	78434
1.063	78123	78162	78201	78240	78279	78318	78357	78396	78435	78474
1.064	78163	78202	78241	78280	78319	78358	78397	78436	78475	78514
1.065	78203	78242	78281	78320	78359	78398	78437	78476	78515	78554
1.066	78243	78282	78321	78360	78399	78438	78477	78516	78555	78594
1.067	78283	78322	78361	78400	78439	78478	78517	78556	78595	78634
1.068	78323	78362	78401	78440	78479	78518	78557	78596	78635	78674
1.069	78363	78402	78441	78480	78519	78558	78597	78636	78675	78714
1.070	78403	78442	78481	78520	78559	78598	78637	78676	78715	78754
1.071	78443	78482	78521	78560	78599	78638	78677	78716	78755	78794
1.072	78483	78522	78561	78600	78639	78678	78717	78756	78795	78834
1.073	78523	78562	78601	78640	78679	78718	78757	78796	78835	78874
1.074	78563	78602	78641	78680	78719	78758	78797	78836	78875	78914
1.075	78603	78642	78681	78720	78759	78798	78837	78876	78915	78954
1.076	78643	78682	78721	78760	78799	78838	78877	78916	78955	78994
1.077	78683	78722	78761	78800	78839	78878	78917	78956	78995	79034
1.078	78723	78762	78801	78840	78879	78918	78957	78996	79035	79074
1.079	78763	78802	78841	78880	78919	78958	78997	79036	79075	79114
1.080	78803	78842	78881	78920	78959	78998	79037	79076	79115	79154
1.081	78843	78882	78921	78960	78999	79038	79077	79116	79155	79194
1.082	78883	78922	78961	79000	79039	79078	79117	79156	79195	79234
1.083	78923	78962	79001	79040	79079	79118	79157	79196	79235	79274
1.084	78963	79002	79041	79080	79119	79158	79197	79236	79275	79314
1.085	79003	79042	79081	79120	79159	79198	79237	79276	79315	79354
1.086	79043	79082	79121	79160	79199	79238	79277	79316	79355	79394
1.087	79083	79122	79161	79200	79239	79278	79317	79356	79395	79434
1.088	79123	79162	79201	79240	79279	79318	79357	79396	79435	79474
1.089	79163	79202	79241	79280	79319	79358	79397	79436	79475	79514
1.090	79203	79242	79281	79320	79359	79398	79437	79476	79515	79554
1.091	79243	79282	79321	79360	79399	79438	79477	79516	79555	79594
1.092	79283	79322	79361	79400	79439	79478	79517	79556	79595	79634
1.093	79323	79362	79401	79440	79479	79518	79557	79596	79635	79674
1.094	79363	79402	79441	79480	79519	79558	79597	79636	79675	79714
1.095	79403	79442	79481	79520	79559	79598	79637	79676	79715	79754
1.096	79443	79482	79521	79560	79599	79638	79677	79716	79755	79794
1.097	79483	79522	79561	79600	79639	79678	79717	79756	79795	79834
1.098	79523	79562	79601	79640	79679	79718	79757	79796	79835	79874
1.099	79563	79602	79641	79680	79719	79758	79797	79836	79875	79914
1.100	79603	79642	79681	79720	79759	79798	79837	79876	79915	79954
1.101	79643	79682	79721	79760	79799	79838	79877	79916	79955	79994
1.102	79683	79722	79761	79800	79839	79878	79917	79956	79995	80034
1.103	79723	79762	79801	79840	79879	79918	79957	79996	80035	80074
1.104	79763	79802	79841	79880	79919	79958	79997	80036	80075	80114
1.105	79803	79842	79881	79920	79959	79998	80037	80076	80115	80154
1.106	79843	79882	79921	79960	79999	80038	80077	80116	80155	80194
1.107	79883	79922	79961	80000	80039	80078				

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P, in Hg	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
2.000	61189	61180	61170	61159	61149	61139	61128	61118	61107	61097
2.010	60983	60974	60963	60953	60942	60932	60922	60912	60901	60891
2.020	60777	60768	60758	60748	60738	60728	60717	60707	60697	60687
2.030	60571	60562	60552	60542	60532	60522	60512	60502	60492	60482
2.040	60365	60356	60346	60336	60326	60316	60306	60296	60286	60276
2.050	60159	60150	60140	60130	60120	60110	60100	60090	60080	60070
2.060	59953	59944	59934	59924	59914	59904	59894	59884	59874	59864
2.070	59747	59738	59728	59718	59708	59698	59688	59678	59668	59658
2.080	59541	59532	59522	59512	59502	59492	59482	59472	59462	59452
2.090	59335	59326	59316	59306	59296	59286	59276	59266	59256	59246
2.100	59129	59120	59110	59100	59090	59080	59070	59060	59050	59040
2.110	58923	58914	58904	58894	58884	58874	58864	58854	58844	58834
2.120	58717	58708	58698	58688	58678	58668	58658	58648	58638	58628
2.130	58511	58502	58492	58482	58472	58462	58452	58442	58432	58422
2.140	58305	58296	58286	58276	58266	58256	58246	58236	58226	58216
2.150	58100	58090	58080	58070	58060	58050	58040	58030	58020	58010
2.160	57894	57884	57874	57864	57854	57844	57834	57824	57814	57804
2.170	57688	57679	57669	57659	57649	57639	57629	57619	57609	57599
2.180	57482	57473	57463	57453	57443	57433	57423	57413	57403	57393
2.190	57276	57267	57257	57247	57237	57227	57217	57207	57197	57187
2.200	57070	57061	57051	57041	57031	57021	57011	57001	56991	56981
2.210	56864	56855	56845	56835	56825	56815	56805	56795	56785	56775
2.220	56658	56649	56639	56629	56619	56609	56599	56589	56579	56569
2.230	56452	56443	56433	56423	56413	56403	56393	56383	56373	56363
2.240	56246	56237	56227	56217	56207	56197	56187	56177	56167	56157
2.250	56040	56031	56021	56011	56001	55991	55981	55971	55961	55951
2.260	55834	55825	55815	55805	55795	55785	55775	55765	55755	55745
2.270	55628	55619	55609	55599	55589	55579	55569	55559	55549	55539
2.280	55422	55413	55403	55393	55383	55373	55363	55353	55343	55333
2.290	55216	55207	55197	55187	55177	55167	55157	55147	55137	55127
2.300	54910	54901	54891	54881	54871	54861	54851	54841	54831	54821
2.310	54704	54695	54685	54675	54665	54655	54645	54635	54625	54615
2.320	54498	54489	54479	54469	54459	54449	54439	54429	54419	54409
2.330	54292	54283	54273	54263	54253	54243	54233	54223	54213	54203
2.340	54086	54077	54067	54057	54047	54037	54027	54017	54007	53997
2.350	53880	53871	53861	53851	53841	53831	53821	53811	53801	53791
2.360	53674	53665	53655	53645	53635	53625	53615	53605	53595	53585
2.370	53468	53459	53449	53439	53429	53419	53409	53399	53389	53379
2.380	53262	53253	53243	53233	53223	53213	53203	53193	53183	53173
2.390	53056	53047	53037	53027	53017	53007	52997	52987	52977	52967
2.400	52850	52841	52831	52821	52811	52801	52791	52781	52771	52761
2.410	52644	52635	52625	52615	52605	52595	52585	52575	52565	52555
2.420	52438	52429	52419	52409	52399	52389	52379	52369	52359	52349
2.430	52232	52223	52213	52203	52193	52183	52173	52163	52153	52143
2.440	52026	52017	52007	51997	51987	51977	51967	51957	51947	51937
2.450	51820	51811	51801	51791	51781	51771	51761	51751	51741	51731
2.460	51614	51605	51595	51585	51575	51565	51555	51545	51535	51525
2.470	51408	51399	51389	51379	51369	51359	51349	51339	51329	51319
2.480	51202	51193	51183	51173	51163	51153	51143	51133	51123	51113
2.490	50996	50987	50977	50967	50957	50947	50937	50927	50917	50907
2.500	50790	50781	50771	50761	50751	50741	50731	50721	50711	50701
2.510	50584	50575	50565	50555	50545	50535	50525	50515	50505	50495
2.520	50378	50369	50359	50349	50339	50329	50319	50309	50299	50289
2.530	50172	50163	50153	50143	50133	50123	50113	50103	50093	50083
2.540	49966	49957	49947	49937	49927	49917	49907	49897	49887	49877
2.550	49760	49751	49741	49731	49721	49711	49701	49691	49681	49671
2.560	49554	49545	49535	49525	49515	49505	49495	49485	49475	49465
2.570	49348	49339	49329	49319	49309	49299	49289	49279	49269	49259
2.580	49142	49133	49123	49113	49103	49093	49083	49073	49063	49053
2.590	48936	48927	48917	48907	48897	48887	48877	48867	48857	48847
2.600	48730	48721	48711	48701	48691	48681	48671	48661	48651	48641
2.610	48524	48515	48505	48495	48485	48475	48465	48455	48445	48435
2.620	48318	48309	48299	48289	48279	48269	48259	48249	48239	48229
2.630	48112	48103	48093	48083	48073	48063	48053	48043	48033	48023
2.640	47906	47897	47887	47877	47867	47857	47847	47837	47827	47817
2.650	47700	47691	47681	47671	47661	47651	47641	47631	47621	47611
2.660	47494	47485	47475	47465	47455	47445	47435	47425	47415	47405
2.670	47288	47279	47269	47259	47249	47239	47229	47219	47209	47199
2.680	47082	47073	47063	47053	47043	47033	47023	47013	47003	46993
2.690	46876	46867	46857	46847	46837	46827	46817	46807	46797	46787
2.700	46670	46661	46651	46641	46631	46621	46611	46601	46591	46581
2.710	46464	46455	46445	46435	46425	46415	46405	46395	46385	46375
2.720	46258	46249	46239	46229	46219	46209	46199	46189	46179	46169
2.730	46052	46043	46033	46023	46013	46003	45993	45983	45973	45963
2.740	45846	45837	45827	45817	45807	45797	45787	45777	45767	45757
2.750	45640	45631	45621	45611	45601	45591	45581	45571	45561	45551
2.760	45434	45425	45415	45405	45395	45385	45375	45365	45355	45345
2.770	45228	45219	45209	45199	45189	45179	45169	45159	45149	45139
2.780	45022	45013	45003	44993	44983	44973	44963	44953	44943	44933
2.790	44816	44807	44797	44787	44777	44767	44757	44747	44737	44727
2.800	44610	44601	44591	44581	44571	44561	44551	44541	44531	44521
2.810	44404	44395	44385	44375	44365	44355	44345	44335	44325	44315
2.820	44198	44189	44179	44169	44159	44149	44139	44129	44119	44109
2.830	43992	43983	43973	43963	43953	43943	43933	43923	43913	43903
2.840	43786	43777	43767	43757	43747	43737	43727	43717	43707	43697
2.850	43580	43571	43561	43551	43541	43531	43521	43511	43501	43491
2.860	43374	43365	43355	43345	43335	43325	43315	43305	43295	43285
2.870	43168	43159	43149	43139	43129	43119	43109	43099	43089	43079
2.880	42962	42953	42943	42933	42923	42913	42903	42893	42883	42873
2.890	42756	42747	42737	42727	42717	42707	42697	42687	42677	42667
2.900	42550	42541	42531	42521	42511	42501	42491	42481	42471	42461
2.910	42344	42335	42325	42315	42305	42295	42285	42275	42265	42255
2.920	42138	42129	42119	42109	42099	42089	42079	42069	42059	42049
2.930	41932	41923	41913	41903	41893	41883	41873	41863	41853	41843
2.940	41726	41717	41707	41697	41687	41677	41667	41657	41647	41637
2.950	41520	41511	41501	41491	41481	41471	41461	41451	41441	41431
2.960	41314	41305	41295	41285	41275	41265	41255	41245	41235	41225
2.970	41108	41099	41089	41079	41069	41059	41049	41039	41029	41019
2.980	40902	40893	40883	40873	40863	40853	40843	40833	40823	40813
2.990	40696	40687	40677	40667	40657	40647	40637	40627	40617	40607

TABLE X - Continued

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GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P.M.Hg	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
3.00	52784	52884	52984	53084	53184	53284	53384	53484	53584	53684
3.10	52072	52172	52272	52372	52472	52572	52672	52772	52872	52972
3.20	51360	51460	51560	51660	51760	51860	51960	52060	52160	52260
3.30	50648	50748	50848	50948	51048	51148	51248	51348	51448	51548
3.40	49936	50036	50136	50236	50336	50436	50536	50636	50736	50836
3.50	49224	49324	49424	49524	49624	49724	49824	49924	50024	50124
3.60	48512	48612	48712	48812	48912	49012	49112	49212	49312	49412
3.70	47800	47900	48000	48100	48200	48300	48400	48500	48600	48700
3.80	47088	47188	47288	47388	47488	47588	47688	47788	47888	47988
3.90	46376	46476	46576	46676	46776	46876	46976	47076	47176	47276
4.00	45664	45764	45864	45964	46064	46164	46264	46364	46464	46564
4.10	44952	45052	45152	45252	45352	45452	45552	45652	45752	45852
4.20	44240	44340	44440	44540	44640	44740	44840	44940	45040	45140
4.30	43528	43628	43728	43828	43928	44028	44128	44228	44328	44428
4.40	42816	42916	43016	43116	43216	43316	43416	43516	43616	43716
4.50	42104	42204	42304	42404	42504	42604	42704	42804	42904	43004
4.60	41392	41492	41592	41692	41792	41892	41992	42092	42192	42292
4.70	40680	40780	40880	40980	41080	41180	41280	41380	41480	41580
4.80	39968	40068	40168	40268	40368	40468	40568	40668	40768	40868
4.90	39256	39356	39456	39556	39656	39756	39856	39956	40056	40156
5.00	38544	38644	38744	38844	38944	39044	39144	39244	39344	39444
5.10	37832	37932	38032	38132	38232	38332	38432	38532	38632	38732
5.20	37120	37220	37320	37420	37520	37620	37720	37820	37920	38020
5.30	36408	36508	36608	36708	36808	36908	37008	37108	37208	37308
5.40	35696	35796	35896	35996	36096	36196	36296	36396	36496	36596
5.50	34984	35084	35184	35284	35384	35484	35584	35684	35784	35884
5.60	34272	34372	34472	34572	34672	34772	34872	34972	35072	35172
5.70	33560	33660	33760	33860	33960	34060	34160	34260	34360	34460
5.80	32848	32948	33048	33148	33248	33348	33448	33548	33648	33748
5.90	32136	32236	32336	32436	32536	32636	32736	32836	32936	33036
6.00	31424	31524	31624	31724	31824	31924	32024	32124	32224	32324
6.10	30712	30812	30912	31012	31112	31212	31312	31412	31512	31612
6.20	30000	30100	30200	30300	30400	30500	30600	30700	30800	30900
6.30	29288	29388	29488	29588	29688	29788	29888	29988	30088	30188
6.40	28576	28676	28776	28876	28976	29076	29176	29276	29376	29476
6.50	27864	27964	28064	28164	28264	28364	28464	28564	28664	28764
6.60	27152	27252	27352	27452	27552	27652	27752	27852	27952	28052
6.70	26440	26540	26640	26740	26840	26940	27040	27140	27240	27340
6.80	25728	25828	25928	26028	26128	26228	26328	26428	26528	26628
6.90	25016	25116	25216	25316	25416	25516	25616	25716	25816	25916
7.00	24304	24404	24504	24604	24704	24804	24904	25004	25104	25204
7.10	23592	23692	23792	23892	23992	24092	24192	24292	24392	24492
7.20	22880	22980	23080	23180	23280	23380	23480	23580	23680	23780
7.30	22168	22268	22368	22468	22568	22668	22768	22868	22968	23068
7.40	21456	21556	21656	21756	21856	21956	22056	22156	22256	22356
7.50	20744	20844	20944	21044	21144	21244	21344	21444	21544	21644
7.60	20032	20132	20232	20332	20432	20532	20632	20732	20832	20932
7.70	19320	19420	19520	19620	19720	19820	19920	20020	20120	20220
7.80	18608	18708	18808	18908	19008	19108	19208	19308	19408	19508
7.90	17896	17996	18096	18196	18296	18396	18496	18596	18696	18796
8.00	17184	17284	17384	17484	17584	17684	17784	17884	17984	18084
8.10	16472	16572	16672	16772	16872	16972	17072	17172	17272	17372
8.20	15760	15860	15960	16060	16160	16260	16360	16460	16560	16660
8.30	15048	15148	15248	15348	15448	15548	15648	15748	15848	15948
8.40	14336	14436	14536	14636	14736	14836	14936	15036	15136	15236
8.50	13624	13724	13824	13924	14024	14124	14224	14324	14424	14524
8.60	12912	13012	13112	13212	13312	13412	13512	13612	13712	13812
8.70	12200	12300	12400	12500	12600	12700	12800	12900	13000	13100
8.80	11488	11588	11688	11788	11888	11988	12088	12188	12288	12388
8.90	10776	10876	10976	11076	11176	11276	11376	11476	11576	11676
9.00	10064	10164	10264	10364	10464	10564	10664	10764	10864	10964
9.10	9352	9452	9552	9652	9752	9852	9952	10052	10152	10252
9.20	8640	8740	8840	8940	9040	9140	9240	9340	9440	9540
9.30	7928	8028	8128	8228	8328	8428	8528	8628	8728	8828
9.40	7216	7316	7416	7516	7616	7716	7816	7916	8016	8116
9.50	6504	6604	6704	6804	6904	7004	7104	7204	7304	7404
9.60	5792	5892	5992	6092	6192	6292	6392	6492	6592	6692
9.70	5080	5180	5280	5380	5480	5580	5680	5780	5880	5980
9.80	4368	4468	4568	4668	4768	4868	4968	5068	5168	5268
9.90	3656	3756	3856	3956	4056	4156	4256	4356	4456	4556
10.00	2944	3044	3144	3244	3344	3444	3544	3644	3744	3844
10.10	2232	2332	2432	2532	2632	2732	2832	2932	3032	3132
10.20	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420
10.30	808	908	1008	1108	1208	1308	1408	1508	1608	1708
10.40	96	196	296	396	496	596	696	796	896	996
10.50		184	284	384	484	584	684	784	884	984
10.60		172	272	372	472	572	672	772	872	972
10.70		160	260	360	460	560	660	760	860	960
10.80		148	248	348	448	548	648	748	848	948
10.90		136	236	336	436	536	636	736	836	936
11.00		124	224	324	424	524	624	724	824	924
11.10		112	212	312	412	512	612	712	812	912
11.20		100	200	300	400	500	600	700	800	900
11.30		88	188	288	388	488	588	688	788	888
11.40		76	176	276	376	476	576	676	776	876
11.50		64	164	264	364	464	564	664	764	864
11.60		52	152	252	352	452	552	652	752	852
11.70		40	140	240	340	440	540	640	740	840
11.80		28	128	228	328	428	528	628	728	828
11.90		16	116	216	316	416	516	616	716	816
12.00		4	104	204	304	404	504	604	704	804
12.10			92	192	292	392	492	592	692	792
12.20			80	180	280	380	480	580	680	780
12.30			68	168	268	368	468	568	668	768
12.40			56	156	256	356	456	556	656	756
12.50			44	144	244	344	444	544	644	744
12.60			32	132	232	332	432	532	632	732
12.70			20	120	220	320	420	520	620	720
12.80			8	108	208	308	408	508	608	708
12.90				96	196	296	396	496	596	696
13.00				84	184	284	384	484	584	684

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P, in Hg	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
13.70	21337	21114	20895	20677	20459	20241	20023	19804	19587	19369
13.60	21118	20895	20677	20459	20241	20023	19804	19587	19369	19151
13.50	20902	20677	20459	20241	20023	19804	19587	19369	19151	18933
13.40	20684	20459	20241	20023	19804	19587	19369	19151	18933	18715
13.30	20467	20241	20023	19804	19587	19369	19151	18933	18715	18497
13.20	20249	20023	19804	19587	19369	19151	18933	18715	18497	18279
13.10	20032	19804	19587	19369	19151	18933	18715	18497	18279	18061
13.00	19814	19587	19369	19151	18933	18715	18497	18279	18061	17843
12.90	19597	19369	19151	18933	18715	18497	18279	18061	17843	17625
12.80	19379	19151	18933	18715	18497	18279	18061	17843	17625	17407
12.70	19162	18933	18715	18497	18279	18061	17843	17625	17407	17189
12.60	18944	18715	18497	18279	18061	17843	17625	17407	17189	16971
12.50	18727	18497	18279	18061	17843	17625	17407	17189	16971	16753
12.40	18509	18279	18061	17843	17625	17407	17189	16971	16753	16535
12.30	18292	18061	17843	17625	17407	17189	16971	16753	16535	16317
12.20	18074	17843	17625	17407	17189	16971	16753	16535	16317	16099
12.10	17857	17625	17407	17189	16971	16753	16535	16317	16099	15881
12.00	17639	17407	17189	16971	16753	16535	16317	16099	15881	15663
11.90	17422	17189	16971	16753	16535	16317	16099	15881	15663	15445
11.80	17204	16971	16753	16535	16317	16099	15881	15663	15445	15227
11.70	16987	16753	16535	16317	16099	15881	15663	15445	15227	15009
11.60	16769	16535	16317	16099	15881	15663	15445	15227	15009	14791
11.50	16552	16317	16099	15881	15663	15445	15227	15009	14791	14573
11.40	16334	16099	15881	15663	15445	15227	15009	14791	14573	14355
11.30	16117	15881	15663	15445	15227	15009	14791	14573	14355	14137
11.20	15899	15663	15445	15227	15009	14791	14573	14355	14137	13919
11.10	15682	15445	15227	15009	14791	14573	14355	14137	13919	13701
11.00	15464	15227	15009	14791	14573	14355	14137	13919	13701	13483
10.90	15247	15009	14791	14573	14355	14137	13919	13701	13483	13265
10.80	15029	14791	14573	14355	14137	13919	13701	13483	13265	13047
10.70	14812	14573	14355	14137	13919	13701	13483	13265	13047	12829
10.60	14594	14355	14137	13919	13701	13483	13265	13047	12829	12611
10.50	14377	14137	13919	13701	13483	13265	13047	12829	12611	12393
10.40	14159	13919	13701	13483	13265	13047	12829	12611	12393	12175
10.30	13942	13701	13483	13265	13047	12829	12611	12393	12175	11957
10.20	13724	13483	13265	13047	12829	12611	12393	12175	11957	11739
10.10	13507	13265	13047	12829	12611	12393	12175	11957	11739	11521
10.00	13289	13047	12829	12611	12393	12175	11957	11739	11521	11303
9.90	13072	12829	12611	12393	12175	11957	11739	11521	11303	11085
9.80	12854	12611	12393	12175	11957	11739	11521	11303	11085	10867
9.70	12637	12393	12175	11957	11739	11521	11303	11085	10867	10649
9.60	12419	12175	11957	11739	11521	11303	11085	10867	10649	10431
9.50	12202	11957	11739	11521	11303	11085	10867	10649	10431	10213
9.40	11984	11739	11521	11303	11085	10867	10649	10431	10213	9995
9.30	11767	11521	11303	11085	10867	10649	10431	10213	9995	9777
9.20	11549	11303	11085	10867	10649	10431	10213	9995	9777	9559
9.10	11332	11085	10867	10649	10431	10213	9995	9777	9559	9341
9.00	11114	10867	10649	10431	10213	9995	9777	9559	9341	9123
8.90	10897	10649	10431	10213	9995	9777	9559	9341	9123	8905
8.80	10679	10431	10213	9995	9777	9559	9341	9123	8905	8687
8.70	10462	10213	9995	9777	9559	9341	9123	8905	8687	8469
8.60	10244	10000	9777	9559	9341	9123	8905	8687	8469	8251
8.50	10027	9777	9559	9341	9123	8905	8687	8469	8251	8033
8.40	9809	9559	9341	9123	8905	8687	8469	8251	8033	7815
8.30	9592	9341	9123	8905	8687	8469	8251	8033	7815	7597
8.20	9374	9123	8905	8687	8469	8251	8033	7815	7597	7379
8.10	9157	8905	8687	8469	8251	8033	7815	7597	7379	7161
8.00	8939	8687	8469	8251	8033	7815	7597	7379	7161	6943
7.90	8722	8469	8251	8033	7815	7597	7379	7161	6943	6725
7.80	8504	8251	8033	7815	7597	7379	7161	6943	6725	6507
7.70	8287	8033	7815	7597	7379	7161	6943	6725	6507	6289
7.60	8069	7815	7597	7379	7161	6943	6725	6507	6289	6071
7.50	7852	7597	7379	7161	6943	6725	6507	6289	6071	5853
7.40	7634	7379	7161	6943	6725	6507	6289	6071	5853	5635
7.30	7417	7161	6943	6725	6507	6289	6071	5853	5635	5417
7.20	7199	6943	6725	6507	6289	6071	5853	5635	5417	5199
7.10	6982	6725	6507	6289	6071	5853	5635	5417	5199	4981
7.00	6764	6507	6289	6071	5853	5635	5417	5199	4981	4763
6.90	6547	6289	6071	5853	5635	5417	5199	4981	4763	4545
6.80	6329	6071	5853	5635	5417	5199	4981	4763	4545	4327
6.70	6112	5853	5635	5417	5199	4981	4763	4545	4327	4109
6.60	5894	5635	5417	5199	4981	4763	4545	4327	4109	3891
6.50	5677	5417	5199	4981	4763	4545	4327	4109	3891	3673
6.40	5459	5199	4981	4763	4545	4327	4109	3891	3673	3455
6.30	5242	4981	4763	4545	4327	4109	3891	3673	3455	3237
6.20	5024	4763	4545	4327	4109	3891	3673	3455	3237	3019
6.10	4807	4545	4327	4109	3891	3673	3455	3237	3019	2801
6.00	4589	4327	4109	3891	3673	3455	3237	3019	2801	2583
5.90	4372	4109	3891	3673	3455	3237	3019	2801	2583	2365
5.80	4154	3891	3673	3455	3237	3019	2801	2583	2365	2147
5.70	3937	3673	3455	3237	3019	2801	2583	2365	2147	1929
5.60	3719	3455	3237	3019	2801	2583	2365	2147	1929	1711
5.50	3502	3237	3019	2801	2583	2365	2147	1929	1711	1493
5.40	3284	3019	2801	2583	2365	2147	1929	1711	1493	1275
5.30	3067	2801	2583	2365	2147	1929	1711	1493	1275	1057
5.20	2849	2583	2365	2147	1929	1711	1493	1275	1057	839
5.10	2632	2365	2147	1929	1711	1493	1275	1057	839	621
5.00	2414	2147	1929	1711	1493	1275	1057	839	621	403
4.90	2197	1929	1711	1493	1275	1057	839	621	403	185
4.80	1979	1711	1493	1275	1057	839	621	403	185	-33
4.70	1762	1493	1275	1057	839	621	403	185	-33	-251
4.60	1544	1275	1057	839	621	403	185	-33	-251	-469
4.50	1327	1057	839	621	403	185	-33	-251	-469	-687
4.40	1109	839	621	403	185	-33	-251	-469	-687	-905
4.30	892	621	403	185	-33	-251	-469	-687	-905	-1123
4.20	674	403	185	-33	-251	-469	-687	-905	-1123	-1341
4.10	457	185	-33	-251	-469	-687	-905	-1123	-1341	-1559
4.00	239	-33	-251	-469	-687	-905	-1123	-1341	-1559	-1777
3.90	21	-251	-469	-687	-905	-1123	-1341	-1559	-1777	-1995
3.80	-197	-469	-687	-905	-1123	-1341	-1559	-1777	-1995	-2213
3.70	-414	-687	-905	-1123	-1341	-1559	-1777	-1995	-2213	-2431
3.60	-632	-905	-1123	-1341	-1559	-1777	-1995	-2213	-2431	-2649
3.50	-849	-1123	-1341	-1559	-1777	-1995	-2213	-2431	-2649	-2867
3.40	-1067	-1341	-1559	-1777	-1995	-2213	-2431	-2649	-2867	-3085
3.30	-1284	-1559	-1777	-1995	-2213	-2431	-2649	-2867	-3085	-3303
3.20	-1502	-1777	-1995	-2213	-2431	-2649	-2867	-3085	-3303	-3521
3.10	-1719	-1995	-2213	-2431	-2649	-2867	-3085	-3303	-3521	-3739
3.00	-1937	-2213	-2431	-2649	-2867	-3085	-3303	-3521	-3739	-3957
2.90	-2154	-2431	-2649	-2867	-3085	-3303	-3521	-3739	-3957	-4175
2.80	-2372	-2649	-2867	-3085	-3303	-3521	-3739	-3957	-4175	-4393
2.70	-2589	-2867	-3085	-3303	-3521	-3739	-3957	-4175	-4393	-4611
2.60	-2807	-3085	-3303	-3521	-3739	-3957	-4175	-4393	-4611	-4829
2.50	-3024	-3303	-3521	-3739	-3957	-417				

TABLE X - Continued

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GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P, in Hg	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
21.70	7101	7084	7068	7054	7040	7027	7014	7001	6989	6977
21.71	6986	6974	6962	6950	6938	6926	6914	6902	6890	6878
21.72	6873	6861	6849	6837	6825	6813	6801	6789	6777	6765
21.73	6752	6740	6728	6716	6704	6692	6680	6668	6656	6644
21.74	6632	6620	6608	6596	6584	6572	6560	6548	6536	6524
21.75	6512	6500	6488	6476	6464	6452	6440	6428	6416	6404
21.76	6392	6380	6368	6356	6344	6332	6320	6308	6296	6284
21.77	6272	6260	6248	6236	6224	6212	6200	6188	6176	6164
21.78	6152	6140	6128	6116	6104	6092	6080	6068	6056	6044
21.79	6032	6020	6008	5996	5984	5972	5960	5948	5936	5924
21.80	5912	5900	5888	5876	5864	5852	5840	5828	5816	5804
21.81	5784	5772	5760	5748	5736	5724	5712	5700	5688	5676
21.82	5664	5652	5640	5628	5616	5604	5592	5580	5568	5556
21.83	5544	5532	5520	5508	5496	5484	5472	5460	5448	5436
21.84	5424	5412	5400	5388	5376	5364	5352	5340	5328	5316
21.85	5304	5292	5280	5268	5256	5244	5232	5220	5208	5196
21.86	5184	5172	5160	5148	5136	5124	5112	5100	5088	5076
21.87	5064	5052	5040	5028	5016	5004	4992	4980	4968	4956
21.88	4944	4932	4920	4908	4896	4884	4872	4860	4848	4836
21.89	4824	4812	4800	4788	4776	4764	4752	4740	4728	4716
21.90	4704	4692	4680	4668	4656	4644	4632	4620	4608	4596
21.91	4584	4572	4560	4548	4536	4524	4512	4500	4488	4476
21.92	4464	4452	4440	4428	4416	4404	4392	4380	4368	4356
21.93	4344	4332	4320	4308	4296	4284	4272	4260	4248	4236
21.94	4224	4212	4200	4188	4176	4164	4152	4140	4128	4116
21.95	4104	4092	4080	4068	4056	4044	4032	4020	4008	3996
21.96	3984	3972	3960	3948	3936	3924	3912	3900	3888	3876
21.97	3864	3852	3840	3828	3816	3804	3792	3780	3768	3756
21.98	3744	3732	3720	3708	3696	3684	3672	3660	3648	3636
21.99	3624	3612	3600	3588	3576	3564	3552	3540	3528	3516
22.00	3504	3492	3480	3468	3456	3444	3432	3420	3408	3396
22.01	3384	3372	3360	3348	3336	3324	3312	3300	3288	3276
22.02	3264	3252	3240	3228	3216	3204	3192	3180	3168	3156
22.03	3144	3132	3120	3108	3096	3084	3072	3060	3048	3036
22.04	3024	3012	3000	2988	2976	2964	2952	2940	2928	2916
22.05	2904	2892	2880	2868	2856	2844	2832	2820	2808	2796
22.06	2784	2772	2760	2748	2736	2724	2712	2700	2688	2676
22.07	2664	2652	2640	2628	2616	2604	2592	2580	2568	2556
22.08	2544	2532	2520	2508	2496	2484	2472	2460	2448	2436
22.09	2424	2412	2400	2388	2376	2364	2352	2340	2328	2316
22.10	2304	2292	2280	2268	2256	2244	2232	2220	2208	2196
22.11	2184	2172	2160	2148	2136	2124	2112	2100	2088	2076
22.12	2064	2052	2040	2028	2016	2004	1992	1980	1968	1956
22.13	1944	1932	1920	1908	1896	1884	1872	1860	1848	1836
22.14	1824	1812	1800	1788	1776	1764	1752	1740	1728	1716
22.15	1704	1692	1680	1668	1656	1644	1632	1620	1608	1596
22.16	1584	1572	1560	1548	1536	1524	1512	1500	1488	1476
22.17	1464	1452	1440	1428	1416	1404	1392	1380	1368	1356
22.18	1344	1332	1320	1308	1296	1284	1272	1260	1248	1236
22.19	1224	1212	1200	1188	1176	1164	1152	1140	1128	1116
22.20	1104	1092	1080	1068	1056	1044	1032	1020	1008	996
22.21	984	972	960	948	936	924	912	900	888	876
22.22	864	852	840	828	816	804	792	780	768	756
22.23	744	732	720	708	696	684	672	660	648	636
22.24	624	612	600	588	576	564	552	540	528	516
22.25	504	492	480	468	456	444	432	420	408	396
22.26	384	372	360	348	336	324	312	300	288	276
22.27	264	252	240	228	216	204	192	180	168	156
22.28	144	132	120	108	96	84	72	60	48	36
22.29	24	12	0	-12	-24	-36	-48	-60	-72	-84
22.30	-96	-108	-120	-132	-144	-156	-168	-180	-192	-204
22.31	-216	-228	-240	-252	-264	-276	-288	-300	-312	-324
22.32	-336	-348	-360	-372	-384	-396	-408	-420	-432	-444
22.33	-456	-468	-480	-492	-504	-516	-528	-540	-552	-564
22.34	-576	-588	-600	-612	-624	-636	-648	-660	-672	-684
22.35	-696	-708	-720	-732	-744	-756	-768	-780	-792	-804
22.36	-816	-828	-840	-852	-864	-876	-888	-900	-912	-924
22.37	-936	-948	-960	-972	-984	-996	-1008	-1020	-1032	-1044
22.38	-1056	-1068	-1080	-1092	-1104	-1116	-1128	-1140	-1152	-1164
22.39	-1176	-1188	-1200	-1212	-1224	-1236	-1248	-1260	-1272	-1284
22.40	-1296	-1308	-1320	-1332	-1344	-1356	-1368	-1380	-1392	-1404
22.41	-1416	-1428	-1440	-1452	-1464	-1476	-1488	-1500	-1512	-1524
22.42	-1536	-1548	-1560	-1572	-1584	-1596	-1608	-1620	-1632	-1644
22.43	-1656	-1668	-1680	-1692	-1704	-1716	-1728	-1740	-1752	-1764
22.44	-1776	-1788	-1800	-1812	-1824	-1836	-1848	-1860	-1872	-1884
22.45	-1896	-1908	-1920	-1932	-1944	-1956	-1968	-1980	-1992	-2004
22.46	-2016	-2028	-2040	-2052	-2064	-2076	-2088	-2100	-2112	-2124
22.47	-2136	-2148	-2160	-2172	-2184	-2196	-2208	-2220	-2232	-2244
22.48	-2256	-2268	-2280	-2292	-2304	-2316	-2328	-2340	-2352	-2364
22.49	-2376	-2388	-2400	-2412	-2424	-2436	-2448	-2460	-2472	-2484
22.50	-2496	-2508	-2520	-2532	-2544	-2556	-2568	-2580	-2592	-2604
22.51	-2616	-2628	-2640	-2652	-2664	-2676	-2688	-2700	-2712	-2724
22.52	-2736	-2748	-2760	-2772	-2784	-2796	-2808	-2820	-2832	-2844
22.53	-2856	-2868	-2880	-2892	-2904	-2916	-2928	-2940	-2952	-2964
22.54	-2976	-2988	-3000	-3012	-3024	-3036	-3048	-3060	-3072	-3084
22.55	-3096	-3108	-3120	-3132	-3144	-3156	-3168	-3180	-3192	-3204
22.56	-3216	-3228	-3240	-3252	-3264	-3276	-3288	-3300	-3312	-3324
22.57	-3336	-3348	-3360	-3372	-3384	-3396	-3408	-3420	-3432	-3444
22.58	-3456	-3468	-3480	-3492	-3504	-3516	-3528	-3540	-3552	-3564
22.59	-3576	-3588	-3600	-3612	-3624	-3636	-3648	-3660	-3672	-3684
22.60	-3696	-3708	-3720	-3732	-3744	-3756	-3768	-3780	-3792	-3804
22.61	-3816	-3828	-3840	-3852	-3864	-3876	-3888	-3900	-3912	-3924
22.62	-3936	-3948	-3960	-3972	-3984	-3996	-4008	-4020	-4032	-4044
22.63	-4056	-4068	-4080	-4092	-4104	-4116	-4128	-4140	-4152	-4164
22.64	-4176	-4188	-4200	-4212	-4224	-4236	-4248	-4260	-4272	-4284
22.65	-4296	-4308	-4320	-4332	-4344	-4356	-4368	-4380	-4392	-4404
22.66	-4416	-4428	-4440	-4452	-4464	-4476	-4488	-4500	-4512	-4524
22.67	-4536	-4548	-4560	-4572	-4584	-4596	-4608	-4620	-4632	-4644
22.68	-4656	-4668	-4680	-4692	-4704	-4716	-4728	-4740	-4752	-4764
22.69	-4776	-4788	-4800	-4812	-4824	-4836	-4848	-4860	-4872	-4884
22.70	-4896	-4908	-4920	-4932	-4944	-4956	-4968	-4980	-4992	-5004
22.71	-5016	-5028	-5040	-5052	-5064	-5076	-5088	-5100	-5112	-5124
22.72	-5136	-5148	-5160	-5172	-5184	-5196	-5208	-5220	-5232	-5244
22.73	-5256	-5268	-5280	-5292	-5304	-5316	-5328	-5340	-5352	-5364
22.74	-5376	-5388	-5400	-5412	-5424	-5436	-5448	-5460	-5472	-5484
22.75	-5496	-5508	-5520	-5532	-5544	-5556	-5568	-5580	-5592	-5604
22.76	-5616	-5628	-5640	-5652	-5664	-5676	-5688	-5700	-5712	-5724
22.77	-5736	-5748	-5760	-5772	-5784	-5796	-5808	-5820	-5832	-5844
22.78	-5856	-5868	-5880	-5892	-5904	-5916	-5928	-5940	-5952	-5964
22.79	-5976	-5988	-6000	-6012	-6024	-6036	-6048	-6060	-6072	-6084
22.80	-6096	-6108	-6120	-6132	-6144	-6156	-6168	-6180	-6192	-6204
22.81	-6216	-6228	-6240	-6252	-6264	-6276	-6288	-6300	-6312	-6324
22.82	-6336	-6348	-6360	-6372	-6384	-6396	-6408	-6420	-6432	-6444
22.83	-6456	-6468	-6480	-6492	-6504	-6516	-6528	-6540	-6552	-6564
22.84	-6576	-6588	-6600	-6612	-6624	-6636	-6648	-6660	-6672	-6684
22.85	-6696	-6708	-6720	-6732	-6744	-6756	-6768	-6780	-6792	-6804
22.86	-6816	-6828	-6840	-6852	-6864	-6876	-6888	-6900	-6912	-6924
22.87	-6936	-6948								

TABLE X - Concluded

GEOPOTENTIAL ALTITUDE IN FEET as a function of PRESSURE IN INCHES OF MERCURY

P, in. Hg	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
33.00	-2776	-2784	-2793	-2801	-2810	-2818	-2827	-2835	-2844	-2852
33.10	-2821	-2829	-2838	-2846	-2855	-2864	-2872	-2881	-2889	-2898
33.20	-2906	-2915	-2923	-2932	-2940	-2949	-2957	-2965	-2974	-2982
33.30	-2971	-2979	-2988	-2996	-3005	-3013	-3022	-3030	-3039	-3047
33.40	-3076	-3084	-3093	-3101	-3109	-3118	-3126	-3135	-3143	-3152
33.50	-3160	-3169	-3177	-3185	-3194	-3202	-3211	-3219	-3228	-3236
33.60	-3244	-3253	-3261	-3270	-3278	-3287	-3295	-3303	-3312	-3320
33.70	-3329	-3337	-3345	-3354	-3362	-3371	-3379	-3387	-3396	-3404
33.80	-3412	-3421	-3429	-3438	-3446	-3454	-3463	-3471	-3479	-3488
33.90	-3496	-3504	-3513	-3521	-3530	-3538	-3546	-3555	-3563	-3571
34.00	-3580	-3588	-3596	-3605	-3613	-3621	-3630	-3638	-3646	-3655
34.10	-3663	-3671	-3680	-3688	-3696	-3704	-3713	-3721	-3729	-3738
34.20	-3746	-3754	-3763	-3771	-3779	-3787	-3796	-3804	-3812	-3821
34.30	-3829	-3837	-3845	-3854	-3862	-3870	-3879	-3887	-3895	-3903
34.40	-3912	-3920	-3928	-3936	-3945	-3953	-3961	-3969	-3978	-3986
34.50	-3994	-4002	-4011	-4019	-4027	-4035	-4044	-4052	-4060	-4068
34.60	-4076	-4085	-4093	-4101	-4109	-4118	-4126	-4134	-4142	-4150
34.70	-4159	-4167	-4175	-4183	-4191	-4200	-4208	-4216	-4224	-4232
34.80	-4240	-4249	-4257	-4265	-4273	-4281	-4290	-4298	-4306	-4314
34.90	-4322	-4330	-4339	-4347	-4355	-4363	-4371	-4379	-4387	-4396

P, in. Hg	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
35.0	-4404	-4485	-4566	-4647	-4728	-4809	-4889	-4969	-5049	-5129
36.0	-5209	-5289	-5368	-5447	-5526	-5605	-5684	-5762	-5840	-5919
37.0	-5996	-6074	-6152	-6229	-6307	-6384	-6461	-6537	-6614	-6691
38.0	-6767	-6843	-6919	-6995	-7070	-7146	-7221	-7296	-7371	-7446
39.0	-7521	-7595	-7670	-7744	-7818	-7892	-7966	-8040	-8113	-8186
40.0	-8260	-8333	-8405	-8478	-8551	-8623	-8696	-8768	-8840	-8912
41.0	-8983	-9055	-9126	-9198	-9269	-9340	-9411	-9482	-9552	-9623
42.0	-9693	-9763	-9833	-9903	-9973	-10043	-10112	-10182	-10251	-10320
43.0	-10389	-10458	-10527	-10595	-10664	-10732	-10800	-10869	-10937	-11004
44.0	-11072	-11140	-11207	-11275	-11342	-11409	-11476	-11543	-11610	-11676
45.0	-11743	-11809	-11876	-11942	-12008	-12074	-12139	-12205	-12271	-12336
46.0	-12402	-12467	-12532	-12597	-12662	-12727	-12791	-12856	-12920	-12985
47.0	-13049	-13113	-13177	-13241	-13305	-13368	-13432	-13495	-13559	-13622
48.0	-13685	-13748	-13811	-13874	-13936	-13999	-14061	-14124	-14186	-14248
49.0	-14310	-14372	-14434	-14495	-14556	-14617	-14678	-14739	-14800	-14860
50.0	-14926	-14987	-15047	-15108	-15169	-15230	-15290	-15350	-15411	-15471
51.0	-15531	-15591	-15651	-15711	-15770	-15830	-15890	-15949	-16008	-16068
52.0	-16127	-16186	-16245	-16304	-16363	-16421	-16480			